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================================================================================*/

package com.vmware.vim25;

/***  
@author Steve Jin (sjin@vmware.com)
*/

public class ExpiredAddonLicense extends ExpiredFeatureLicense
{
}

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/**
 * @author Steve Jin (sjin@vmware.com)
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public class NotEnoughLicenses extends RuntimeFault
{

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/**
 * @author Steve Jin (sjin@vmware.com)
 */

class VmLimitLicense extends NotEnoughLicenses
{
    public int limit;

    public int getLimit()
    {
        return this.limit;
    }

    public void setLimit(int limit)
    {
        this.limit=limit;
    }
}

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================================================================================*/

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/**
@ author Steve Jin (sjin@vmware.com)
*/

public class ExpiredEditionLicense extends ExpiredFeatureLicense
{
//
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/**
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 */

public class InvalidLicense extends VimFault {
    public String licenseContent;

    public String getLicenseContent() {
        return this.licenseContent;
    }

    public void setLicenseContent(String licenseContent) {
        this.licenseContent = licenseContent;
    }
}
package com.vmware.vim25;
import java.util.Calendar;

/**
 * @author Steve Jin (sjin@vmware.com)
 */

public class ExpiredFeatureLicense extends NotEnoughLicenses
{
    public String feature;
    public int count;
    public Calendar expirationDate;

    public String getFeature()
    {
        return this.feature;
    }
}
public int getCount()
{
    return this.count;
}

public Calendar getExpirationDate()
{
    return this.expirationDate;
}

public void setFeature(String feature)
{
    this.feature=feature;
}

public void setCount(int count)
{
    this.count=count;
}

public void setExpirationDate(Calendar expirationDate)
{
    this.expirationDate=expirationDate;
}

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package com.vmware.vim25;

/**<n
@author Steve Jin (sjin@vmware.com)
*/

public class InvalidEditionLicense extends NotEnoughLicenses
{
    public String feature;

    public String getFeature()
    {
        return this.feature;
    }

    public void setFeature(String feature)
    {
        this.feature=feature;
    }
}

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/**
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 */

public class Permission extends DynamicData {
    public ManagedObjectReference entity;
    public String principal;
    public boolean group;
    public int roleId;
    public boolean propagate;

    public ManagedObjectReference getEntity() {
        return this.entity;
    }

    public String getPrincipal() {
        return this.principal;
    }

    public boolean isGroup() {
        return this.group;
    }

    public int getRoleId() {
        return this.roleId;
    }

    public boolean isPropagate() {
        return this.propagate;
    }
}
public void setEntity(ManagedObjectReference entity)
{
    this.entity=entity;
}

public void setPrincipal(String principal)
{
    this.principal=principal;
}

public void setGroup(boolean group)
{
    this.group=group;
}

public void setRoleId(int roleId)
{
    this.roleId=roleId;
}

public void setPropagate(boolean propagate)
{
    this.propagate=propagate;
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (sjin@vmware.com)
 */

public class VramLimitLicense extends NotEnoughLicenses {
    public int limit;

    public int getLimit() {
        return this.limit;
    }

    public void setLimit(int limit) {
        this.limit = limit;
    }
}

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1.8 util-linux 2.23.2-65.el7_9.1

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 */

NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M

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

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

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1.11 spring-test 3.0.7.RELEASE

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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
jar/org/springframework/mock/jndi/SimpleNamingContext.java
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jar/org/springframework/test/context/transaction/TransactionConfigurationAttributes.java
* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
jar/org/springframework/test/context/support/AbstractGenericContextLoader.java
* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
jar/org/springframework/test/AssertThrows.java
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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2.jar/org/springframework/mock/web/portlet/MockResourceURL.java
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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2.jar/org/springframework/mock/web/MockPortletRequestDispatcher.java
* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2.jar/org/springframework/test/jpa/AbstractAspectsTests.java
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  jar/org/springframework/test/annotation/SystemProfileValueSource.java
* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
  jar/org/springframework/test/jpa/OrmXmlOverridingShadowingClassLoader.java
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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
  jar/org/springframework/test/context/TestContext.java
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* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
  jar/org/springframework/test/jdbc/SimpleJdbcTestUtils.java
* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
  jar/org/springframework/test/context/junit4/SpringJUnit4ClassRunner.java

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  jar/org/springframework/mock/web/MockMultipartHttpServletRequest.java
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  jar/org/springframework/mock/web/MockRequestDispatcher.java
* /opt/cola/permits/1150871827_1617712759.64/0/spring-test-3-0-7-release-sources-2-
1.12 perl-constant 1.27-2.el7

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* /opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-eRwAgL5p/perl-constant.spec

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---

abstract: 'Perl pragma to declare constants'

author:
  - 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'

build_requires:
  Test::More: 0

configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'

license: perl

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

version: 1.4

name: constant

provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

Found in path(s):
  */opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-
  eRwAgL5p/constant-1.27.tar.gz-cosi-expand-archive-B44A52uU/constant-1.27/META.yml
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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI    => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "...\n" if DEBUG;

use constant {
    SEC   => 0,
    MIN   => 1,
    HOUR  => 2,
    MDAY  => 3,
    MON   => 4,
    YEAR  => 5,
    WDAY  => 6,
    YDAY  => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], "\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.
When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an `if (CONSTANT)` block will be optimized away if the constant is false.

=head1 NOTES

As with all `<use>` directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like `if ($foo) { use constant ... }`).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

```perl
print "Pi equals PI...
";  # WRONG: does not expand "PI"
print "Pi equals .PI."\"...
";  # right
```

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

```perl
use constant ARRAY => [ 1,2,3,4 ];
print ARRAY->[1];
ARRAY->[1] = " be changed";
print ARRAY->[1];
```

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in `<Some::Package::CONSTANT>`. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as `C< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C< $obj > is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants
Constants may be lists of more (or less) than one value. A constant with no values evaluates to \texttt{C<undef>} in scalar context. Note that constants with more than one value do not return their last value in scalar context as one might expect. They currently return the number of values, but this may change in the future. Do not use constants with multiple values in scalar context.

\textbf{NOTE:} This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

\begin{verbatim}
use constant TIMESTAMP => localtime;       # WRONG!
use constant TIMESTAMP => scalar localtime; # right
\end{verbatim}

The first line above defines \texttt{C<TIMESTAMP>} as a 9-element list, as returned by \texttt{C<localtime()>} in list context. To set it to the string returned by \texttt{C<localtime()>} in scalar context, an explicit \texttt{C<scalar>} keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

\begin{verbatim}
my @workdays = WEEKDAYS[1 .. 5];            # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];          # right
\end{verbatim}

=head2 Defining multiple constants at once

Instead of writing multiple \texttt{C<use constant>} statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

\begin{verbatim}
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!", # Error!
};
\end{verbatim}

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until \texttt{I<after>} the \texttt{C<use>} statement is finished.
use constant {
    BITMASK => 0xAFBAEB8,
    NEGMASK => ~BITMASK,                    # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile
time, allowing for way cool stuff like this. (These error numbers
aren't totally portable, alas.)

use constant E2BIG => ($! = 7);
print E2BIG, "\n";        # something like "Arg list too long"
print 0+E2BIG, "\n";        # "7"

You can't produce a tied constant by giving a tied scalar as the
value. References to tied variables, however, can be used as
constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually
inlinable subroutines. As of version 5.004 of Perl, the appropriate
scalar constant is inserted directly in place of some subroutine
calls, thereby saving the overhead of a subroutine call. See
L<perlsub/Constant Functions> for details about how and when this
happens.

In the rare case in which you need to discover at run time whether a
particular constant has been declared via this module, you may use
this function to examine the hash C<%constant::declared>. If the given
constant name does not include a package name, the current package is
used.

    sub declared ($) {
        use constant 1.01;              # don't omit this!
        my $name = shift;
        $name =~ s/^::/main::/;
        my $pkg = caller;
        my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
        $constant::declared{$full_name};
    }

=head1 CAVEATS

In the current version of Perl, list constants are not inlined
and some symbols may be redefined without generating a warning.
It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.

You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<$hash{CONSTANT()}> or C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<< => >> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<l>F<rootbeer@redcat.com>E<g>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<l>F<casey@geeknest.com>E<g>.

Documentation mostly rewritten by Ilmari Karonen, E<l>F<perl@itz.pp.sci.fi>E<g>.

This program is maintained by the Perl 5 Porters. The CPAN distribution is maintained by SE<e>bastien Aperghis-Tramoni

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E<lt>Ф<sebastien@aperghis.net>Ф<gt>.

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=cut

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* /opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-
  eRwAgL5p/constant-1.27.tar.gz-cosi-expand-archive-B44A52uU/constant-1.27/lib/constant.pm
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NAME

  constant - Perl pragma to declare constants

DESCRIPTION

  This pragma allows you to declare constants at compile-time.

  When a constant is used in an expression, Perl replaces it with its
  value at compile time, and may then optimize the expression further.
  In particular, any code in an "if (CONSTANT)" block will be optimized
  away if the constant is false.

INSTALLATION

  To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

  Alternatively, to install with Module::Build, you can use the
  following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install
SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc constant

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

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1.13 quartz-oracle 2.1.5
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*
*/

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* /opt/cola/permits/1136271395_1613726017.58/0/quartz-oracle-2-1-5-sources-1-
  jar/org/quartz/impl/jdbcjobstore/oracle/OracleDelegate.java

1.14 perl-http-tiny 0.033-3.el7

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* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-
  jar/org/codehaus/jackson/JsonStreamContext.java
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  jar/org/codehaus/jackson/Base64Variant.java
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1.17 classmate 1.3.3

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.18 commons-lang3 2.0

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* /opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/BooleanUtils.java
* /opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/time/FastDateFormat.java
* /opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/WordUtils.java
* /opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/BitField.java
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* /opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/CharSet.java
* /opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/ObjectUtils.java
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1.19 commons-fileupload 1.2.1

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1.20 groovy 1.0-jsr-06

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were developed by Martin Porter and Richard Boulton.
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http://snowball.tartarus.org/

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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


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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
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- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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1.28 openssl 1.0.2k-21.el7_9

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1.30 perl-pod-usage 1.63-3.el7

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1.31 libx11 1.6.7-3.el7_9

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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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 * Base64 encoder which is a reduced version of Robert Harder's public domain
 * implementation (version 2.3.7). See <a
 * href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 * @author Luke Taylor
 * @since 3.0
 */

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* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2- jar/org/springframework/security/access/method/P.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2- jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java

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* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2- jar/org/springframework/security/core/annotation/AuthenticationPrincipal.java

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/**
 * Determines if the {@link #getAuthentication()} has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the {@link #getAuthentication()}, else
 * false
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4.0.2-release-sources-2.jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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*/

*/

*/
jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4.0.2-release-sources-2-
jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4.0.2-release-sources-2-
jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4.0.2-release-sources-2-
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
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jar/org/springframework/security/authentication/encoding/Md4PasswordEncoder.java
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/** 
* Reviews the <code>Object</code> returned from a secure object invocation, being able to 
* modify the <code>Object</code> or throw an [link AccessDeniedException]. 
* <p> 
* Typically used to ensure the principal is permitted to access the domain object 
* instance returned by a service layer bean. Can also be used to mutate the domain object 
* instance so the principal is only able to access authorised bean properties or 
* <code>Collection</code> elements. 
* <p> 
* Special consideration should be given to using an <code>AfterInvocationManager</code> 
* on bean methods that modify a database. Typically an 
* <code>AfterInvocationManager</code> is used with read-only methods, such as 
* <code>public DomainObject getById(id)</code>. If used with methods that modify a 
* database, a transaction manager should be used to ensure any 
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the 
* transaction. 
* </p> 
* 
* @author Ben Alex 
*/ 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2.jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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/**
 * A token issued by {@link TokenService}.
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * {@link TokenService} are free to use encryption or encoding strategies of their choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */

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* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4.0.2-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2-
  jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2-
  jar/org/springframework/security/access/intercept/RunAsManager.java
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  jar/org/springframework/security/util/SimpleMethodInvocation.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2-
  jar/org/springframework/security/authentication/AccountExpiredException.java
* /opt/ws_local/PERMITS_SQL/1070611131_1594724985.27/0/spring-security-core-4-0-2-release-sources-2-
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1.33 libdmx 1.1.3-3.el7

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1.38 zlib 1.2.7-19.el7_9

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1.40 nghttp2 1.2.1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingReader.java

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
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  jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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  jar/org/codehaus/stax2/typed/Base64Variant.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/Base64Variants.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/XMLStreamReader2.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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  * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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  * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
  * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
  * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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jar/org/objectweb/asm/tree/TypeInsnNode.java
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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*/
/**
 * Handles or intercepts a [@link ChannelInboundInvoker] or [@link ChannelOutboundInvoker] operation, and
 * forwards it
 * to the next handler in a [@link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [@link ChannelHandler] itself does not provide many methods. To handle a
 * a [@link ChannelInboundInvoker] or [@link ChannelOutboundInvoker] operation
 * you need to implement its sub-interfaces. There are many different sub-interfaces
 * which handles inbound and outbound operations.
 *
 * But the most useful for developers may be:
 * <ul>
 * <li>[@link ChannelInboundHandlerAdapter] handles and intercepts inbound operations</li>
 * <li>[@link ChannelOutboundHandlerAdapter] handles and intercepts outbound operations</li>
 * </ul>
 *
 * You will also find more detailed explanation from the documentation of
 * each sub-interface on how an event is interpreted when it goes upstream and
 * downstream respectively.
 *
 * <h3>The context object</h3>
 * <p>
 * A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext]
 * object. A [@link ChannelHandler] is supposed to interact with the
 * [@link ChannelPipeline] it belongs to via a context object. Using the
 * context object, the [@link ChannelHandler] can pass events upstream or
 * downstream, modify the pipeline dynamically, or store the information
 * (using [@link AttributeKey]s) which is specific to the handler.
 *
 * <h3>State management</h3>
 *
 * A [@link ChannelHandler] often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:
 *
 * public interface Message {

* // your methods here
*
*
* public class DataServerHandler extends \@link SimpleChannelInboundHandler\Message\ { 
* 
* <b>private boolean loggedIn;</b>
*
* { @code @Override 
* public void channelRead0([^ChannelHandlerContext] ctx, Message message) { 
* 
* [^Channel] ch = e.getChannel();
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) message);
* <b>loggedIn = true;</b>
* } else (message instanceof GetDataMessage) {
* if (<b>loggedIn</b>) {
* ch.write(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
* ... 
* }
* ...
* } }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See \@link ChannelInitializer\initChannel(\Channel\).
* public class DataServerInitializer extends \@link ChannelInitializer\ \&\;\@\Channel\ \&\; \{ 
* { @code @Override 
* public void initChannel([^Channel] channel) {
* channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
* }
* }
* }
* </pre>
* *
* <h4>Using \@link AttributeKey\</h4>
* *
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use \@link AttributeKey\s which is provided by
* \@link ChannelHandlerContext\:
* <pre>
* public interface Message {
// your methods here
}
*
*
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }{ Message } { 
* private final { @link AttributeKey }{ @link Boolean } &gt; auth = 
* { @link AttributeKey #valueOf(String) AttributeKey.valueOf("auth") } ;
*
* { @code @Override }
* public void channelRead({ @link ChannelHandlerContext } ctx, Message message) { 
* { @link Attribute }{ @link Boolean } &gt; attr = ctx.attr(auth); 
* { @link Channel } ch = ctx.channel();
* if (message instanceof LoginMessage) { 
* authenticate((LoginMessage) o);
* &lt;b&gt;attr.set(true)&lt;/b&gt;;
* } else (message instanceof GetDataMessage) { 
* if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) { 
* ch.write(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* ...
* }
* &lt;/pre&gt;
* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the same handler instance to different pipelines:
* &lt;pre&gt;
* public class DataServerInitializer extends { @link ChannelInitializer }{ @link Channel } { 
* private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
*
* { @code @Override }
* public void initChannel({ @link Channel } channel) { 
* channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
* }
* &lt;/pre&gt;
* ...
* 
* &lt;h4&gt;The { @code @Sharable } annotation&lt;/h4&gt;
* &lt;p&gt;
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* &lt;p&gt;
* If a { @link ChannelHandler } is annotated with the { @code @Sharable } annotation, it means you can create an instance of the handler just once and
* add it to one or more `@link ChannelPipeline`\(\)'s multiple times without
* a race condition.
* 
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* 
* This annotation is provided for documentation purpose, just like
* `@a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>`.
* 
* Please refer to the `@link ChannelHandler`, and
* `@link ChannelPipeline` to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* />

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1.53 urllib3 1.25.8
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  # Contributions to the urllib3 project

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    ## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers
* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZdHBFxQb6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
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  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)
* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.
* Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenborn <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.
* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
  HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2-jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java
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* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2-jar/org/springframework/security/config/annotation/authentication/configuration/InitializeUserDetailsBeanManager
Configurer.java
*/

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jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegistry.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/annotation/web/configurers/HttpBasicConfigurer.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsServiceConfigurer.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/annotation/web/configurers/FilterComparator.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsServiceConfigurer.java

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* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/http/FilterChainBeanDefinitionParser.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/http/DefaultFilterChainValidator.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/http/SecurityFilters.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/authentication/JdbcUserServiceBeanDefinitionParser.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/ldap/LdapServerBeanDefinitionParser.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2.jar/org/springframework/security/config/socket/AbstractSecurityWebSocketMessageBrokerConfigurer.java
* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2-...
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* /opt/cola/permits/1135952894_1613641105.55/0/spring-security-config-4-2-3-release-sources-2-
  jar/org/springframework/security/config/debug/SecurityDebugBeanFactoryPostProcessor.java

1.57 kbd 1.15.5-15.el7
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setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
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1.58 open-ldap 2.4.44-22.el7
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1.59 scheduler-library 1.0.7-SNAPSHOTT
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# */
# Master file containing all SCHEDULER Service messages.
#
# The following files will be generated from this file.
SCHEDULER_ERROR.Base = scheduler.15000
SCHEDULER_WARN.Base = scheduler.16000
SCHEDULER_INFO.Base = scheduler.17000
SCHEDULER_DEBUG.Base = scheduler.18000

SCHEDULER_ERROR_START_DATE_EMPTY.Text=Start date in Scheduler is not present
SCHEDULER_ERROR_START_DATE_EMPTY.Cause=No Start date present in input
SCHEDULER_ERROR_START_DATE_EMPTY.Action=Please provide valid Start date and try again
SCHEDULER_ERROR_START_DATE_EMPTY.HttpStatus=403

SCHEDULER_ERROR_INVALID_START_DATE.Text=Start date should not be past date
SCHEDULER_ERROR_INVALID_START_DATE.Cause=Start date is past date.
SCHEDULER_ERROR_INVALID_START_DATE.Action=Please provide valid start date and try again
SCHEDULER_ERROR_INVALID_START_DATE(HttpStatus=403

SCHEDULER_ERROR_INVALID_DATES.Text=End date should be greater than Start date
SCHEDULER_ERROR_INVALID_DATES.Cause=Dates are invalid
SCHEDULER_ERROR_INVALID_DATES.Action=Please provide valid dates and try again
SCHEDULER_ERROR_INVALID_DATES(HttpStatus=403

SCHEDULER_ERROR_PAST_END_DATE.Text=End date cannot be in the past.
SCHEDULER_ERROR_PAST_END_DATE.Cause=End date cannot be in the past.
SCHEDULER_ERROR_PAST_END_DATE.Action=Please provide valid end date and try again.
SCHEDULER_ERROR_PAST_END_DATE(HttpStatus=403

SCHEDULER_ERROR_INVALID_PORTNUMBER.Text=Port Number is not valid
SCHEDULER_ERROR_INVALID_PORTNUMBER.Cause=PortNumber is invalid
SCHEDULER_ERROR_INVALID_PORTNUMBER.Action=Please provide valid port number and try again
SCHEDULER_ERROR_INVALID_PORTNUMBER(HttpStatus=403

SCHEDULER_ERROR_INVALID_REQUESTID.Text=REQUESTID Can not be zero
SCHEDULER_ERROR_INVALID_REQUESTID.Cause=REQUESTID is invalid
SCHEDULER_ERROR_INVALID_REQUESTID.Action=Please provide valid REQUESTID and try again
SCHEDULER_ERROR_INVALID_REQUESTID(HttpStatus=403

SCHEDULER_ERROR_INVALID_SERVICECALENDARID.Text=ServiceCalendarID can not be zero
SCHEDULER_ERROR_INVALID_SERVICECALENDARID.Cause=ServiceCalendarID is invalid
SCHEDULER_ERROR_INVALID_SERVICECALENDARID.Action=Please provide valid SERVICECALENDARID and try again
SCHEDULER_ERROR_INVALID_SERVICECALENDARID(HttpStatus=403
SCHEDULER_ERROR_GENERIC.Text=Generic error. Should not be used
SCHEDULER_ERROR_GENERIC.Cause=Not the way to build enterprise class product
SCHEDULER_ERROR_GENERIC.Action=Specify exact scenario and corresponding action
SCHEDULER_ERROR_GENERIC.HttpStatus=500

SCHEDULER_ERROR_FAILED_TO_CONNECT.Text=Failed to establish connection to server: {0}
SCHEDULER_ERROR_FAILED_TO_CONNECT.Cause=Connection could not be established.
SCHEDULER_ERROR_FAILED_TO_CONNECT.Action=Check if the audit engine is running.
SCHEDULER_ERROR_FAILED_TO_CONNECT.HttpStatus=403

SCHEDULER_ERROR_INVALID_INPUT.Text=Input value provided to SCHEDULER Engine is invalid: {0}
SCHEDULER_ERROR_INVALID_INPUT.Cause=One of the key input parameters is missing.
SCHEDULER_ERROR_INVALID_INPUT.Action=Please provide valid parameters [Device IP, Configuration File].
SCHEDULER_ERROR_INVALID_INPUT.HttpStatus=403

SCHEDULER_ERROR_INVALID_CRON_EXPRESSION.Text=Not a valid cron expression
SCHEDULER_ERROR_INVALID_CRON_EXPRESSION.Cause=Cron Expression is not valid.
SCHEDULER_ERROR_INVALID_CRON_EXPRESSION.Action=Check for valid cron expression.
SCHEDULER_ERROR_INVALID_CRON_EXPRESSION.HttpStatus=403

SCHEDULER_ERROR_SERVICECALENDARID_NOT_AVIALABLE.Text=Service CalendarID is not available
SCHEDULER_ERROR_SERVICECALENDARID_NOT_AVIALABLE.Cause=Service CalendarID is not available.
SCHEDULER_ERROR_SERVICECALENDARID_NOT_AVIALABLE.Action=Please provide service calendarid that exists in DB.
SCHEDULER_ERROR_SERVICECALENDARID_NOT_AVIALABLE.HttpStatus=403

SCHEDULER_ERROR_NOT_XML_OBJECT.Text=XML Object is not valid
SCHEDULER_ERROR_NOT_XML_OBJECT.Cause=XML Object is not valid
SCHEDULER_ERROR_NOT_XML_OBJECT.Action=please provide valid xml object
SCHEDULER_ERROR_NOT_XML_OBJECT.HttpStatus=403

SCHEDULER_WARN_INVALID_INPUT.Text=Input value provided to SCHEDULER Engine is invalid: {0}
SCHEDULER_WARN_INVALID_INPUT.Cause=OS Version is a nice to have parameter.
SCHEDULER_WARN_INVALID_INPUT.Action=Please provide valid parameters [OS version].
SCHEDULER_WARN_INVALID_INPUT(HttpStatus=403

SCHEDULER_ERROR_VALIDATING_SERVICECALENDARDTO.Text=Validation of servicecalendarDTO failed
SCHEDULER_ERROR_VALIDATING_SERVICECALENDARDTO.Cause=Validation of servicecalendarDTO
failed
SCHEDULER_ERROR_VALIDATE_SERVICECALENDARDTO.Action= Please provide valid servicecalendarDTO.
SCHEDULER_ERROR_VALIDATE_SERVICECALENDARDTO.HttpStatus=403

SCHEDULER_ERROR_ROUTING_BASEDON_DESTINATION.Text=Error in Routing Based on Destination
SCHEDULER_ERROR_ROUTING_BASEDON_DESTINATION.Cause= Error in Routing Based on Destination
SCHEDULER_ERROR_ROUTING_BASEDON_DESTINATION.Action=Provide valid parameters while Routing Based on Destination.
SCHEDULER_ERROR_ROUTING_BASEDON_DESTINATION.HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_DAILYCALENDARSCHEDULE.Text=Error in generating CronTrigger for DailyCalendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_DAILYCALENDARSCHEDULE.Cause= Error in generating CronTrigger for DailyCalendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_DAILYCALENDARSCHEDULE.Action=Please check creation of Cron Trigger for DailyCalendar schedule.
SCHEDULER_ERROR_CRONTRIGGER_DAILYCALENDARSCHEDULE.HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_WEEKLYCALENDARSCHEDULE.Text=Error in generating CronTrigger for WeeklyCalendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_WEEKLYCALENDARSCHEDULE.Cause= Error in generating CronTrigger for WeeklyCalendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_WEEKLYCALENDARSCHEDULE.Action=Please check creation of Cron Trigger for WeeklyCalendar schedule
SCHEDULER_ERROR_CRONTRIGGER_WEEKLYCALENDARSCHEDULE.HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYDATECALENDARSCHEDULE.Text=Error in generating CronTrigger for MonthlyByDate Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYDATECALENDARSCHEDULE.Cause= Error in generating CronTrigger for MonthlyByDate Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYDATECALENDARSCHEDULE.Action=Please check creation of Cron Trigger for MonthlyByDate Calendar schedule
SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYDATECALENDARSCHEDULE(HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYWEEKCALENDARSCHEDULE.Text=Error in generating CronTrigger for MonthlyByWeek Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYWEEKCALENDARSCHEDULE.Cause= Error in generating CronTrigger for MonthlyByWeek Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYWEEKCALENDARSCHEDULE.Action=Please check creation of Cron Trigger for MonthlyByWeek Calendar schedule
SCHEDULER_ERROR_CRONTRIGGER_MONTHLYBYWEEKCALENDARSCHEDULE.HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYDATECALENDARSCHEDULE.Text=Error in generating CronTrigger for YearlyByDate Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYDATECALENDARSCHEDULE.Cause= Error in generating CronTrigger for YearlyByDate Calendar Schedule

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SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYDATE_CALENDARSCHEDULE.Action=Please check creation of Cron Trigger for YearlyByDate Calendar schedule
SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYDATE_CALENDARSCHEDULE.HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYWEEK_CALENDARSCHEDULE.Text=Error in generating CronTrigger for YearlyByWeek Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYWEEK_CALENDARSCHEDULE.Cause= Error in generating CronTrigger for YearlyByWeek Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYWEEK_CALENDARSCHEDULE.Action=Please check creation of Cron Trigger for YearlyByWeek Calendar schedule
SCHEDULER_ERROR_CRONTRIGGER_YEARLYBYWEEK_CALENDARSCHEDULE(HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_MINUTELY_CALENDARSCHEDULE.Text=Error in generating CronTrigger for Minutely Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_MINUTELY_CALENDARSCHEDULE.Cause= Error in generating CronTrigger for Minutely Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_MINUTELY_CALENDARSCHEDULE.Action=Please check creation of Cron Trigger for Minutely Calendar schedule
SCHEDULER_ERROR_CRONTRIGGER_MINUTELY_CALENDARSCHEDULE(HttpStatus=403

SCHEDULER_ERROR_CRONTRIGGER_HOURORMINT_CALENDARSCHEDULE.Text=Error in generating CronTrigger for Hourly or Minutely Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_HOURORMINT_CALENDARSCHEDULE.Cause= Error in generating CronTrigger for Hourly or Minutely Calendar Schedule
SCHEDULER_ERROR_CRONTRIGGER_HOURORMINT_CALENDARSCHEDULE.Action=Please check creation of Cron Trigger for Hourly or Minutely Calendar schedule
SCHEDULER_ERROR_CRONTRIGGER_HOURORMINT_CALENDARSCHEDULE(HttpStatus=403

SCHEDULER_ERROR_CREATING_SCHEDULE.Text=Error in Creating Schedule
SCHEDULER_ERROR_CREATING_SCHEDULE.Cause= Error in Creating Schedule
SCHEDULER_ERROR_CREATING_SCHEDULE.Action=Please check for Create Schedule.
SCHEDULER_ERROR_CREATING_SCHEDULE(HttpStatus=403

SCHEDULER_ERROR_EDIT_SCHEDULE.Text=Error in Edit Schedule
SCHEDULER_ERROR_EDIT_SCHEDULE.Cause= Error in Edit Schedule
SCHEDULER_ERROR_EDIT_SCHEDULE.Action=Please check for Edit Schedule.
SCHEDULER_ERROR_EDIT_SCHEDULE(HttpStatus=403

SCHEDULER_ERROR_JOB_EXECUTION.Text=Error in Job Execution.
SCHEDULER_ERROR_JOB_EXECUTION.Cause= Error in Job Execution.
SCHEDULER_ERROR_JOB_EXECUTION.Action=Please verify job execution.
SCHEDULER_ERROR_JOB_EXECUTION(HttpStatus=403

SCHEDULER_ERROR_RECURRENCE_FREQUENCY.Text=Recurrence Frequency is missing.
SCHEDULER_ERROR_RECURRENCE_FREQUENCY.Cause= Recurrence Frequency is missing.
SCHEDULER_ERROR_RECURRENCE_FREQUENCY.Action=Please provide value for Recurrence Frequency.
SCHEDULER_ERROR_RECURRANCE_FREQUENCY.HttpStatus=403

SCHEDULER_ERROR_NEGATIVE_RECURRANCE_FREQUENCY.Text=Recurrence Frequency can not be zero or negative
SCHEDULER_ERROR_NEGATIVE_RECURRANCE_FREQUENCY.Cause= Recurrence Frequency can not be zero or negative.
SCHEDULER_ERROR_NEGATIVE_RECURRANCE_FREQUENCY.Action=Please provide positive value for Recurrence Frequency.
SCHEDULER_ERROR_NEGATIVE_RECURRANCE_FREQUENCY.HttpStatus=403

SCHEDULER_ERROR_NEGATIVE_NUMBER_OF_RECURRENCES.Text=NumberOfRecurrences can not be zero or negative
SCHEDULER_ERROR_NEGATIVE_NUMBER_OF_RECURRENCES.Cause= NumberOfRecurrences can not be zero or negative.
SCHEDULER_ERROR_NEGATIVE_NUMBER_OF_RECURRENCES.Action=Please provide positive value for NumberOfRecurrences.
SCHEDULER_ERROR_NEGATIVE_NUMBER_OF_RECURRENCES.HttpStatus=403

SCHEDULER_ERROR_INVALID_STARTDATE_CRITERIA.Text=Either Immediately or StartDate should be selected.
SCHEDULER_ERROR_INVALID_STARTDATE_CRITERIA.Cause= Either Immediately or StartDate should be selected.
SCHEDULER_ERROR_INVALID_STARTDATE_CRITERIA.Action=Please select either Immediately or StartDate.
SCHEDULER_ERROR_INVALID_STARTDATE_CRITERIA.HttpStatus=403

SCHEDULER_ERROR_INVALID_WEEKLYCALENDAR.Text=Not a valid weekly calendar, at least one or more in (Mon-Sun) should be selected
SCHEDULER_ERROR_INVALID_WEEKLYCALENDAR.Cause= Not a valid weekly calendar.
SCHEDULER_ERROR_INVALID_WEEKLYCALENDAR.Action=Please provide valid weekly calendar, at least one of (Mon-Sun) should be selected.
SCHEDULER_ERROR_INVALID_WEEKLYCALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_DAYINMONTH_MONTHLYBYDATECALENDAR.Text=DayInMonth is missing for MonthlyByDate Calendar.
SCHEDULER_ERROR_INVALID_DAYINMONTH_MONTHLYBYDATECALENDAR.Cause= DayInMonth is missing for MonthlyByDate Calendar.
SCHEDULER_ERROR_INVALID_DAYINMONTH_MONTHLYBYDATECALENDAR.Action=Please provide DayInMonth for MonthlyByDate Calendar.
SCHEDULER_ERROR_INVALID_DAYINMONTH_MONTHLYBYDATECALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_WEEKINMONTH_MONTHLYBYWEEKCALENDAR.Text=WeekInMonth is missing for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKINMONTH_MONTHLYBYWEEKCALENDAR.Cause= WeekInMonth is missing for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKINMONTH_MONTHLYBYWEEKCALENDAR.Action=Please provide WeekInMonth for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKINMONTH_MONTHLYBYWEEKCALENDAR.HttpStatus=403
SCHEDULER_ERROR_INVALID_MONTH_MONTHLYBYWEEK_CALENDAR.Text=Month is missing for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_MONTH_MONTHLYBYWEEK_CALENDAR.Cause=Month is missing for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_MONTH_MONTHLYBYWEEK_CALENDAR.Action=Please provide valid Month for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_MONTH_MONTHLYBYWEEK_CALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_WEEKDAY_MONTHLYBYWEEK_CALENDAR.Text=WeekDay is missing for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKDAY_MONTHLYBYWEEK_CALENDAR.Cause=WeekDay is missing for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKDAY_MONTHLYBYWEEK_CALENDAR.Action=Please provide WeekDay for MonthlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKDAY_MONTHLYBYWEEK_CALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_DAYINMONTH_YEARLYBYDATE_CALENDAR.Text=DayInMonth is missing for YearlyByDate Calendar.
SCHEDULER_ERROR_INVALID_DAYINMONTH_YEARLYBYDATE_CALENDAR.Cause=DayInMonth is missing for YearlyByDate Calendar.
SCHEDULER_ERROR_INVALID_DAYINMONTH_YEARLYBYDATE_CALENDAR.Action=Please provide DayInMonth for YearlyByDate Calendar.
SCHEDULER_ERROR_INVALID_DAYINMONTH_YEARLYBYDATE_CALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYDATE_CALENDAR.Text=Month is missing for YearlyByDate Calendar.
SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYDATE_CALENDAR.Cause=Month is missing for YearlyByDate Calendar.
SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYDATE_CALENDAR.Action=Please provide Month for YearlyByDate Calendar.
SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYDATE_CALENDAR(HttpStatus=403

SCHEDULER_ERROR_INVALID_WEEKINMONTH_YEARLYBYWEEK_CALENDAR.Text=WeekInMonth is missing for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKINMONTH_YEARLYBYWEEK_CALENDAR.Cause=WeekInMonth is missing for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKINMONTH_YEARLYBYWEEK_CALENDAR.Action=Please provide WeekInMonth for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKINMONTH_YEARLYBYWEEK_CALENDAR(HttpStatus=403

SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYWEEK_CALENDAR.Text=Month is missing for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYWEEK_CALENDAR.Cause=Month is missing for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYWEEK_CALENDAR.Action=Please provide Month for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_MONTH_YEARLYBYWEEK CALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_WEEKDAY_YEARLYBYWEEK CALENDAR.Text=WeekDay is missing for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKDAY_YEARLYBYWEEK CALENDAR.Cause=WeekDay is missing for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKDAY_YEARLYBYWEEK CALENDAR.Action=Please provide WeekDay for YearlyByWeek Calendar.
SCHEDULER_ERROR_INVALID_WEEKDAY_YEARLYBYWEEK CALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_DAILY CALENDAR.Text=Either recurrence frequency or everyweekday should be selected
SCHEDULER_ERROR_INVALID_DAILY CALENDAR.Cause= Not a Valid Daily Calendar.
SCHEDULER_ERROR_INVALID_DAILY CALENDAR.Action=Either recurrence frequency or everyweekday should be selected
SCHEDULER_ERROR_INVALID_DAILY CALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_DAILY CALENDAR SELECTION.Text=Any one out of recurrence frequency and everyweekday should be selected.
SCHEDULER_ERROR_INVALID_DAILY CALENDAR SELECTION.Cause= Not a Valid Daily Calendar.
SCHEDULER_ERROR_INVALID_DAILY CALENDAR SELECTION.Action=Any one out of recurrence frequency and everyweekday should be selected.
SCHEDULER_ERROR_INVALID_DAILY CALENDAR SELECTION.HttpStatus=403

SCHEDULER_ERROR_INVALID_MONTH.Text=Not a valid month.
SCHEDULER_ERROR_INVALID_MONTH.Cause=Not a valid month
SCHEDULER_ERROR_INVALID_MONTH.Action=Please provide valid month.
SCHEDULER_ERROR_INVALID_MONTH.HttpStatus=403

SCHEDULER_ERROR_INVALID_DAYOFTHEWEEK.Text=Not a valid day of the week.
SCHEDULER_ERROR_INVALID_DAYOFTHEWEEK.Cause=Not a valid day of the week.
SCHEDULER_ERROR_INVALID_DAYOFTHEWEEK.Action=Please provide valid day of the week.
SCHEDULER_ERROR_INVALID_DAYOFTHEWEEK.HttpStatus=403

SCHEDULER_ERROR_INVALID_WEEKINMONTH.Text=Not a valid week in month.
SCHEDULER_ERROR_INVALID_WEEKINMONTH.Cause=Not a valid week in month.
SCHEDULER_ERROR_INVALID_WEEKINMONTH.Action=Please provide valid week in month.
SCHEDULER_ERROR_INVALID_WEEKINMONTH.HttpStatus=403

SCHEDULER_ERROR_INVALID_DAYINMONTH.Text=DayInMonth should be between 1 and 31.
SCHEDULER_ERROR_INVALID_DAYINMONTH.Cause=DayInMonth should be between 1 and 31.
SCHEDULER_ERROR_INVALID_DAYINMONTH.Action=Please provide valid value for DayInMonth.
SCHEDULER_ERROR_INVALID_DAYINMONTH.HttpStatus=403

SCHEDULER_ERROR_INVALID_SCHEDULE_PAYLOAD.Text=ScheduleInfo is missing.
SCHEDULER_ERROR_INVALID_SCHEDULE_PAYLOAD.Cause=ScheduleInfo is missing.
SCHEDULER_ERROR_INVALID_SCHEDULE_PAYLOAD.Action=Please provide valid ScheduleInfo.
SCHEDULER_ERROR_INVALID_SCHEDULE_PAYLOAD.HttpStatus=403

SCHEDULER_ERROR_INVALID_END_CRITERIA_SCHEDULE_PAYLOAD.Text=Invalid End Criteria. Any one out of endOfRecurrence and noOfOccurrences should be selected.
SCHEDULER_ERROR_INVALID_END_CRITERIA_SCHEDULE_PAYLOAD.Cause= Any one out of endOfRecurrence and noOfOccurrences should be selected.
SCHEDULER_ERROR_INVALID_END_CRITERIA_SCHEDULE_PAYLOAD.Action=Please select either endOfRecurrence or noOfOccurrences but not both.
SCHEDULER_ERROR_INVALID_END_CRITERIA_SCHEDULE_PAYLOAD.HttpStatus=403

SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR.Text=Occurrence of job will never happen for the user input criteria for DailyCalendar.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR.Cause= Occurrence of job will never happen for the user input criteria for DailyCalendar.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR.Action=Please Check recurrenceFrequency and EndDate.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR.HttpStatus=403

SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR_WEEKDAY.Text=Occurrence of job will never happen for the user input criteria for DailyCalendar.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR_WEEKDAY.Cause= Occurrence of job will never happen for the user input criteria for DailyCalendar.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR_WEEKDAY.Action=Please check whether weekday exists between start date and end date.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_DAILYCALENDAR_WEEKDAY.HttpStatus=403

SCHEDULER_ERROR_OCCURRENCE_OF_JOB_WEEKLYCALENDAR.Text=Occurrence of job will never happen for the user input criteria for WeeklyCalendar.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_WEEKLYCALENDAR.Cause= Occurrence of job will not happen for the user input criteria for WeeklyCalendar.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_WEEKLYCALENDAR.Action=Please Check recurrenceFrequency and EndDate.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_WEEKLYCALENDAR.HttpStatus=403

SCHEDULER_ERROR_OCCURRENCE_OF_JOB_MONTHLYBYDATE.Text=Occurrence of job will never happen for the user input criteria for MonthlyByDate.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_MONTHLYBYDATE.Cause= Occurrence of job will never happen for the user input criteria for MonthlyByDate.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_MONTHLYBYDATE.Action=Please Check recurrenceFrequency and EndDate.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_MONTHLYBYDATE.HttpStatus=403

SCHEDULER_ERROR_OCCURRENCE_OF_JOB_MONTHLYBYWEEK.Text=Occurrence of job will never happen for the user input criteria for MonthlyByWeek.
SCHEDULER_ERROR_OCCURRENCE_OF_JOB_MONTHLYBYWEEK.Cause= Occurrence of job will never happen for the user input criteria for MonthlyByWeek.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_MONTHLY_BY_WEEK.Action=Please Check recurrenceFrequency and EndDate.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_MONTHLY_BY_WEEK.HttpStatus=403

SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_DATE.Text=Occurrence of job will never happen for the user input criteria for YearlyByDate.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_DATE.Cause= Occurrence of job will never happen for the user input criteria for YearlyByDate.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_DATE.Action=Please Check EndDate.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_DATE.HttpStatus=403

SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_WEEK.Text=Occurrence of job will never happen for the user input criteria for YearlyByWeek.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_WEEK.Cause= Occurrence of job will never happen for the user input criteria for YearlyByWeek.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_WEEK.Action=Please Check EndDate.
SCHEDULER_ERROR_OCCURENCE_OF_JOB_YEARLY_BY_WEEK.HttpStatus=403

SCHEDULER_ERROR_SERVICECALENDAR_DOESNOT_EXIST.Text=ServiceCalendar does not exist for the given requestId.
SCHEDULER_ERROR_SERVICECALENDAR_DOESNOT_EXIST.Cause= ServiceCalendar does not exist for the given requestId.
SCHEDULER_ERROR_SERVICECALENDAR_DOESNOT_EXIST.Action=Please provide valid request which has servicecalendar info for the reschedule operation.
SCHEDULER_ERROR_SERVICECALENDAR_DOESNOT_EXIST.HttpStatus=403

SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_DAILYCALENDAR.Text=Recurrence Frequency in DailyCalendar should not exceed 364.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_DAILYCALENDAR.Cause= Recurrence Frequency in DailyCalendar should not exceed 364.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_DAILYCALENDAR.Action=Please provide value Less than or Equal to 364.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_DAILYCALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_WEEKLYCALENDAR.Text=Recurrence Frequency in WeeklyCalendar should not exceed 52.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_WEEKLYCALENDAR.Cause= Recurrence Frequency in WeeklyCalendar should not exceed 52.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_WEEKLYCALENDAR.Action=Please provide value Less than or Equal to 52.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_WEEKLYCALENDAR.HttpStatus=403

SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_MONTHLY.Text=Recurrence Frequency in Monthly should not exceed 12.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_MONTHLY.Cause= Recurrence Frequency
in Monthly should not exceed 12.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_MONTHLY.Action=Please provide value
Less than or Equal to 12.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_MONTHLY.HttpStatus=403

SCHEDULER_ERROR_SERVICECALENDAR_NOT_AVIALABLE.Text=ServiceCalendar information is not
available in ScheduleInfo.
SCHEDULER_ERROR_SERVICECALENDAR_NOT_AVIALABLE.Cause= ServiceCalendar information is not
available in ScheduleInfo.
SCHEDULER_ERROR_SERVICECALENDAR_NOT_AVIALABLE.Action=Please provide ServiceCalendar
information in ScheduleInfo.
SCHEDULER_ERROR_SERVICECALENDAR_NOT_AVIALABLE.HttpStatus=403

SCHEDULER_ERROR_NUMBER_OF_RECURRENCES_RUNONCE.Text=NumberOfRecurrences can not be
greater than 1 for RunOnce
SCHEDULER_ERROR_NUMBER_OF_RECURRENCES_RUNONCE.Cause= NumberOfRecurrences can not be
greater than 1 for RunOnce
SCHEDULER_ERROR_NUMBER_OF_RECURRENCES_RUNONCE.Action=Please provide
NumberOfRecurrences value as 1 for RunOnce.
SCHEDULER_ERROR_NUMBER_OF_RECURRENCES_RUNONCE.HttpStatus=403

SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_RUNONCE.Text=For RunOnce Recurrence
Frequency should not hold any value.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_RUNONCE.Cause= For RunOnce
Recurrence Frequency should not hold any value.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_RUNONCE.Action=Please Donot Provide
any value for RecurrencyFrequency in case of RunOnce.
SCHEDULER_ERROR_INVALID_RECURRENCE_FREQUENCY_RUNONCE.HttpStatus=403

SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR.Text=Exception in collector Please check collector logs.
SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR.Cause= Exception in collector Please check collector
logs.
SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR.Action=Exception in collector Please check collector
logs.
SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR.HttpStatus=403

SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR_SIDE.Text={0}
SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR_SIDE.Cause=Exception in collector.
SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR_SIDE.Action=Please select the scenario that is currently
supported in collector.
SCHEDULER_ERROR_EXCEPTION_IN_COLLECTOR_SIDE.HttpStatus=403

SCHEDULER_ERROR_EXCEPTION_CANCEL_COLLECTOR_SIDE.Text={0}
SCHEDULER_ERROR_EXCEPTIONCANCEL_COLLECTOR_SIDE.Cause=Exception in collector.
SCHEDULER_ERROR_EXCEPTIONCANCEL_COLLECTOR_SIDE.Action=A CSPC job can be cancelled only
when at least one of its occurrences is currently executing.
SCHEDULER_ERROR_EXCEPTION_CANCEL_COLLECTOR_SIDE.HttpStatus=403

SCHEDULER_ERROR_INVALID_USER_NAME.Text=Invalid user name
SCHEDULER_ERROR_INVALID_USER_NAME.Cause=User name is not valid
SCHEDULER_ERROR_INVALID_USER_NAME.Action=Please provide a valid user name
SCHEDULER_ERROR_INVALID_USER_NAME.HttpStatus=403

SCHEDULER_ERROR_INVALID_SERVICE_NAME.Text=Invalid Service name
SCHEDULER_ERROR_INVALID_SERVICE_NAME.Cause=Service name is not valid
SCHEDULER_ERROR_INVALID_SERVICE_NAME.Action=Please provide a valid Service name
SCHEDULER_ERROR_INVALID_SERVICE_NAME.HttpStatus=403

SCHEDULER_ERROR_INVALID_START_END_DATES.Text=Invalid Start date/ End date
SCHEDULER_ERROR_INVALID_START_END_DATES.Cause=Start date/ End date are not valid
SCHEDULER_ERROR_INVALID_START_END_DATES.Action=Please provide a valid Start date/ End date
SCHEDULER_ERROR_INVALID_START_END_DATES.HttpStatus=403

SCHEDULER_ERROR_RUNONCE_IMMEDIATELY.Text=Service Calendar is missing, this does not qualify as a Schedule request.
SCHEDULER_ERROR_RUNONCE_IMMEDIATELY.Cause=Service Calendar is missing, this does not qualify as a Schedule request.
SCHEDULER_ERROR_RUNONCE_IMMEDIATELY.Action=Please select another input since this does not qualify as a Schedule request
SCHEDULER_ERROR_RUNONCE_IMMEDIATELY.HttpStatus=403

SCHEDULER_ERROR_REQUESTID_NOTEXISTS.Text=RequestId does not exits in DB.
SCHEDULER_ERROR_REQUESTID_NOTEXISTS.Cause=RequestId does not exists in DB
SCHEDULER_ERROR_REQUESTID_NOTEXISTS.Action=Please provide requestId which exists in DB.
SCHEDULER_ERROR_REQUESTID_NOTEXISTS.HttpStatus=403

SCHEDULER_ERROR_REQUEST_ALREADY_CANCELLED.Text=This schedule is already cancelled so you can not cancel it again.
SCHEDULER_ERROR_REQUEST_ALREADY_CANCELLED.Cause=This schedule is already cancelled so you can not cancel it again.
SCHEDULER_ERROR_REQUEST_ALREADY_CANCELLED.Action=This schedule is already cancelled so you can not cancel it again.
SCHEDULER_ERROR_REQUEST_ALREADY_CANCELLED.HttpStatus=403

SCHEDULER_ERROR_CANCELLING_DELETED_REQUEST.Text=You can not cancel the schedule which is already deleted Or Request Id doesn’t exist.
SCHEDULER_ERROR_CANCELLING_DELETED_REQUEST.Cause=You can not cancel the schedule which is already deleted.
SCHEDULER_ERROR_CANCELLING_DELETED_REQUEST.Action=You can not cancel the schedule which is already deleted.
SCHEDULER_ERROR_CANCELLING_DELETED_REQUEST.HttpStatus=403

SCHEDULER_ERROR_DELETING_DELETED_REQUEST.Text=You are trying to delete requestId which does
SCHEDULER_ERROR_DELETING_DELETED_REQUEST.Cause=You are trying to delete requestId which does not exist.
SCHEDULER_ERROR_DELETING_DELETED_REQUEST.Action=You are trying to delete requestId which does not exist.
SCHEDULER_ERROR_DELETING_DELETED_REQUEST.HttpStatus=403

SCHEDULER_ERROR_EDING_DELETED_REQUEST.Text=You can not edit the schedule which is already deleted Or Request id doesn't Exist.
SCHEDULER_ERROR_EDING_DELETED_REQUEST.Cause=You can not edit the schedule which is already deleted.
SCHEDULER_ERROR_EDING_DELETED_REQUEST.Action=For performing edit please enter the requestid which is not deleted.
SCHEDULER_ERROR_EDING_DELETED_REQUEST.HttpStatus=403

SCHEDULER_ERROR_START_DATE_IS_INVALID.Text=Invalid Start date
SCHEDULER_ERROR_START_DATE_IS_INVALID.Cause=Start date is null or blank or not a valid date value
SCHEDULER_ERROR_START_DATE_IS_INVALID.Action=Please provide valid Start date and try again
SCHEDULER_ERROR_START_DATE_IS_INVALID.HttpStatus=403

SCHEDULER_ERROR_END_DATE_IS_INVALID.Text=Invalid End date
SCHEDULER_ERROR_END_DATE_IS_INVALID.Cause=End date is null or blank or not a valid date value
SCHEDULER_ERROR_END_DATE_IS_INVALID.Action=Please provide valid End date and try again
SCHEDULER_ERROR_END_DATE_IS_INVALID.HttpStatus=403

#_API_MALFORM_XML=Malformed XML Request: {0}
#_API_UNSUPP_OPER=Unsupported operation : {0}
#_API_OPER_EX=Exception while processing operation '{0}' : {1}
#_API_POLICY_GRP_UNKNOWN=Unable to find policy group '{0}'
#_API_FILE_NOT_FOUND=Input File: {0} is not found.
#_API_PCBV2_NOT_VALID=Exception while opening PCBV2 file: {0}. Probably not a PCBV2 file. {0}
#_API_ADD_SERV_GEN=Unable to add Service {0}

Found in path(s):
* /opt/cola/permits/1183947387_1632222335.67/0/scheduler-library-1-0-7-jar/SchedulerMessages.txt

1.60 python 2.7.5-68.el7
1.60.1 Available under license :

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msvcr90.dll
msvcp90.dll
msvcm90.dll

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A. HISTORY OF THE SOFTWARE

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

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

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

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

<table>
<thead>
<tr>
<th>Release Range</th>
<th>Derived From</th>
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History and License

History of the software

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

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

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

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

+----------------+--------------+-----------+------------+-----------------+
| Release        | Derived from | Year      | Owner      | GPL compatible? |
+================+==============+===========+============+=================+
| 0.9.0 thru 1.2 | n/a          | 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       | no              |
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    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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-----------------------------

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test_epoll

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/ValueStore.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java

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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java

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jar/org/apache/xerces/xinclude/XInclude11TextReader.java
*/opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeHandler.java
*/opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSConstants.java
*/opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
*/opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java
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  jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
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  jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
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  jar/org/apache/xerces/dom3/as/ASObject.java
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  jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
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jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XTConvertor.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLModElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLTemplateElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLUElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLParagraphElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLTextAreaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLIsIndexElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

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jar/org/apache/html/dom/HTMLMapElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLDListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLBRElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLGoElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLULListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLLLabelElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
...
jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTableElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLBEElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableRowElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMetaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLAnchorElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLButtonElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBaseFontElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLOListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HMTLInputElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLOListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ByteListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java

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  jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/XMLDTSScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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 */
/**
 * DOM Level 3 LS CR - Experimental.
* Create a new `<code>LSParser</code>`. The newly constructed parser may
* then be configured by means of its `<code>DOMConfiguration</code>`
* object, and used to parse documents by means of its `<code>parse</code>`
* method.
* @param mode  The `<code>mode</code>` argument is either
* `<code>MODE_SYNCHRONOUS</code>` or `<code>MODE_ASYNCHRONOUS</code>`; if
* `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the
* `<code>LSParser</code>` that is created will operate in synchronous
* mode, if it's `<code>MODE_ASYNCHRONOUS</code>` then the
* `<code>LSParser</code>` that is created will operate in asynchronous
* mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a `<code>Document</code>` using the
* newly created `<code>LSParser</code>` object. Note that no lexical checking
* is done on the absolute URI. In order to create a
* `<code>LSParser</code>` for any kind of schema types (i.e. the
* `<code>LSParser</code>` will be free to use any schema found), use the value
* `<code>null</code>`.
* <p><b>Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-200010502/'>XML Schema Part 1</a>]
* , applications must use the value
* `<code>"http://www.w3.org/2001/XMLSchema"</code>`. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* `<code>"http://www.w3.org/TR/TR/REC-xml"</code>`. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return  The newly created `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument.
* <p><b>Note:</b> By default, the newly created `<code>LSParser</code>` does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the `<code>error-handler</code>` configuration
* parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SchemaParsingConfig.java
jar/org/apache/xerces/impl/xs/models/CMBuilder.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
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*/
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FloatDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
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  jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSGlobalDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSParentUse.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSParticle.java
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  jar/org/apache/xerces/dom/DocumentTypeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/ElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java

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  jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/DNOTATIONDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/LCount.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XMLStringBuffer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
1.62 activemq-mqtt 5.15.14

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1.71 activemq-client 5.15.14

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1.73 jetty-infinispan 9.4.11.v20180605

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The reason we have a separate public license for some libraries is that
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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its purpose remains meaningful.

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a purpose that is entirely well-defined independent of the
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1.81 commons-pool 1.3

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1.82 jetty-io 9.4.11.v20180605

1.83 maven-repository-metadata 3.3.3

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* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/DelegatingApplicationContextInitializer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceNotFoundException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceBanner.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/env/PropertiesPropertySourceLoader.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/jta/narayana/NarayanaRecoveryManagerBean.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/jta/narayana/NarayanaXADataSourceWrapper.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/logback/WhitespaceThrowableProxyConverter.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/logback/ColorConverter.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/logback/WhitespaceThrowableProxyConverter.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/logback/ColorConverter.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/embedded/tomcat/package-info.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/embedded/tomcat/TomcatContextCustomizer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/embedded/EmbeddedServletContainerException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/embedded/jetty/package-info.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/json/YamlJsonParser.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceNotFoundException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceNotFoundException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceBanner.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/env/PropertiesPropertySourceLoader.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/jta/narayana/NarayanaRecoveryManagerBean.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/jta/narayana/NarayanaXADataSourceWrapper.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/DelegatingApplicationContextInitializer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceNotFoundException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceNotFoundException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/config/ResourceBanner.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/env/PropertiesPropertySourceLoader.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/jta/narayana/NarayanaRecoveryManagerBean.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-jar/org/springframework/boot/context/jta/narayana/NarayanaXADataSourceWrapper.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2
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jar/org/springframework/boot/web/servlet/ServletContextInitializer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/jackson/JsonComponent.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/bind/RelaxedDataBinder.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/logging/log4j2/SpringBootConfigurationFactory.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/context/embedded/PortInUseException.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/jackson/JsonObjectSerializer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/logging/logback/SpringPropertyAction.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/context/event/ApplicationStartedEvent.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/jta/narayana/NarayanaBeanFactoryPostProcessor.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/web/servlet/WebServletHandler.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/web/servlet/ServletComponentRegisteringPostProcessor.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/context/embedded/SslStoreProvider.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/system/SystemProperties.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/diagnostics/analyzer/ValidationExceptionFailureAnalyzer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/jta/narayana/NarayanaXAConnectionFactoryWrapper.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/json/BasicJsonParser.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/diagnostics/analyzer/NoUniqueBeanDefinitionFailureAnalyzer.java
* /opt/cola/permits/1136222797_1613710154.25/0/spring-boot-1-5-6-release-sources-2-
jar/org/springframework/boot/jta/narayana/NarayanaConfigurationBean.java
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  jar/org/apache/commons/digester/SetRootRule.java
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  jar/org/apache/commons/digester/plugins/PluginInvalidInputException.java
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*/opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java
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  jar/org/apache/commons/digester/substitution/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/parser/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/plugins/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/plugins/strategies/package.html

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* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
  jar/org/apache/commons/digester/ObjectCreationFactory.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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1.102 shared-mime-info 1.8 4.el7

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1.106 zlib 1.2.3

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1.107 junixsocket-native-common 2.0.4

1.108 mysql 15.1

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MySQL 5.5

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<package-name>/lib/libglib-2.0.so.0.1600.6
<package-name>/lib/libglib-2.0.so.0
...

Example:

tar -xvfX mysql-proxy-0.8.1-solaris10-x86-64bit.tar.gz Exclude

Exclude File:

mysql-proxy-0.8.1-solaris10-x86-64bit/lib/libglib-2.0.so
mysql-proxy-0.8.1-solaris10-x86-64bit/lib/libglib-2.0.so.0
mysql-proxy-0.8.1-solaris10-x86-64bit/lib/libgmodule-2.0.so
mysql-proxy-0.8.1-solaris10-x86-64bit/lib/libgmodule-2.0.so.0
mysql-proxy-0.8.1-solaris10-x86-64bit/lib/libgthread-2.0.so
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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
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/Operator.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/BasicCommandSet.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/CompileException.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/compiler/AccessorNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/PreFixIncNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/VariableResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/ClassImportResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/ExecutionStack.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/UnitConversion.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/AssignmentNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/TypeInjectionResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ParserContext.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/templates/res/TerminalNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/templates/TemplateSyntaxError.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/Unit.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/TypedVarNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/MVELRuntime.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/OptimizationFailure.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/Negation.java
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jar/org/mvel2/conversion/BigIntegerCH.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/util/PropertyTools.java
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  jar/org/mvel2/optimizers/OptimizationNotSupported.java
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  jar/org/mvel2/ast/TypeCast.java
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  jar/org/mvel2/integration/ResolverTools.java
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  jar/org/mvel2/integration/Impl/ImmutableDefaultFactory.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/integration/ResolverTools.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/integration/Impl/ImmutableDefaultFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/DeclProtoVarNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/PostFixIncNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/ASTTNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/CompiledNamedIncludeNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/DeclProtoVarNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/PostFixIncNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/compiler/ExecutableAccessorSafe.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/PreProcessor.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/util/JITClassLoader.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/OperativeAssign.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/optimizers/impl/asm/ASMAccessorOptimizer.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/sh/command/basic/ObjectInspector.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/compiler/BlankLiteral.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/WithNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/PushContext.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/PropertyHandler.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/EvalNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/IndexedPreFixDecNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/IndexedPostFixDecNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/optimizers/dynamic/DynamicOptimizer.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/NewObjectNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/IndexedPostFixDecNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/PropertyHandler.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/NewAssignmentNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/PropertyHandler.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/IndexedOperativeAssign.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/And.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/Fold.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/IndexedDeclTypedVarNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/DefaultLocalVariableResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/asm/util/TraceClassVisitor.java

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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/util/AbstractVisitor.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/AnnotationVisitor.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/ByteVector.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/util/TraceFieldVisitor.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/ClassReader.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/AnnotationWriter.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/Opcodes.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/signature/SignatureVisitor.java
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 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessorNH.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/collection/ExprValueAccessor.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/IndexedVariableAccessor.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessor.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
 * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/asm/signature/package.html
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/package.html

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

1.118 python-setuptools 39.2.0 10.el7

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1.119 libvmtools 11.0.5-3.el7

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>>> freebsd-base64-4.8
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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jar/org/springframework/data/mongodb/CannotGetMongoDbConnectionException.java
* /opt/cola/permits/1111265007_1606891631.56/0/spring-data-mongodb-1-6-0-release-sources-1-
jar/org/springframework/data/mongodb/repository/support/MongoRepositoryFactory.java

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  jar/org/springframework/data/mongodb/monitor/ConnectionMetrics.java
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* /opt/cola/permits/1111265007_1606891631.56/0/spring-data-mongodb-1-6-0-release-sources-1-jar/org/springframework/data/mongodb/core/SimpleMongoDbFactory.java
* /opt/cola/permits/1111265007_1606891631.56/0/spring-data-mongodb-1-6-0-release-sources-1-jar/org/springframework/data/mongodb/config/MongoParsingUtils.java
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* /opt/cola/permits/1111265007_1606891631.56/0/spring-data-mongodb-1-6-0-release-sources-1-jar/org/springframework/data/mongodb/config/ServerAddressPropertyEditor.java

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1.125 python-decorator 3.4.0-3.el7

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cgLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/documentation3.py
* /opt/cola/permits/1136595845_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-
cgLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/documentation.py
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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
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Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
--------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
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Classifier: Programming Language :: Python :: 3
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* /opt/cola/permits/1136595845_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/src/decorator.egg-info/PKG-INFO
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Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
Installation

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions \( \geq 2.4 \) in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

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is an older version of the decorator module; in such a case remove the old version.

Documentation
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Repository
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The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Found in path(s):
* /opt/cola/permits/1136595845_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-nclFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/README.txt
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Found in path(s):
try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error"""
    for line in open(fname):
        if line.startswith('__version__'):  
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
    version=VERSION,
    description='Better living through Python with decorators',
    long_description=open('README.txt').read(),
    author='Michele Simionato',
    author_email='michele.simionato@gmail.com',
    url='http://pypi.python.org/pypi/decorator',
    license='BSD License',
    package_dir = {'': 'src'},
    py_modules = ['decorator'],
    keywords="decorators generic utility",
    platforms=['All'],
    classifiers=['Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Natural Language :: English',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 3',
    'Topic :: Software Development :: Libraries',
    'Topic :: Utilities'],
    use_2to3=True,
    zip_safe=False)
1.126 hawtjni-runtime 1.9

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1.127 open-ldap 2.4.44-22.el7

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* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2.jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2.jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2.jar/org/springframework/beans/factory/support/ManagedList.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2.jar/org/springframework/beans/PropertyValues.java
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* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2.jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2.jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
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* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/PropertyAccessException.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/PropertyAccessException.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/NotWritablePropertyException.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/MutablePropertyValues.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/support/MutableSortDefinition.java
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* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/support/PowerListHolder.java
* /opt/cola/permits/1136702521_1613864954.94/0/spring-beans-3-2-11-release-sources-2-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
1.148 activemq-stomp 5.16.1
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.155 icu 60

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

# Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

# Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

# Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

# Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

# Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

# Shared object suffix
SO = so
# Non-shared intermediate object suffix
STATIC_O = ao

# Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

## Dependency rules

%.d: $(srcdir)/%.c

@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed "s/(.*)\.o\[ :)\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp

@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "s/(.*)\.o\[ :)\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)

$(RM) $@ && ln -s ${<F} $@

%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)

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

## Bind internal references

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

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

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

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1.164 libnl3 3.2.28-4.el7

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Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
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If distribution of object code is made by offering access to copy
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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1.176 libdaemon 0.14-7.el7
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1.177 libxcursor 1.1.15 1.el7

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1.178 spring-web-mvc 3.2.11.RELEASE

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* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/handler/SimpleMappingExceptionResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/view/json/MappingJacksonJsonView.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/HttpServletBean.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/mvc/theme/ThemeChangeInterceptor.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/handler/AbstractExceptionHandler.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/support/RequestContext.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/view/RedirectView.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/view/tiles3/TilesView.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/theme/LocalCookieThemeResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/theme/ContentNegotiatingViewResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/FrameworkServlet.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/support/JstlUtils.java

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* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java
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jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
jar/org/springframework/web/servlet/config/annotation/InterceptorRegistry.java
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* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3.jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3.jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3.jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3.jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java

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  jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java
  */opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
  jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
  */opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
  jar/org/springframework/web/servlet/view/velocity/VelocityToolboxView.java
  */opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
  jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
  */opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
  jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
  */opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-
  jar/org/springframework/web/servlet/view/tiles2/SpringTilesApplicationContextFactory.java

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  jar/org/springframework/web/servlet/view/json/package-info.java
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* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/support/BindStatus.java
* /opt/cola/permits/1136704174_1613865307.25/0/spring-webmvc-3-2-11-release-sources-3-jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * 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.
 *
 * All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [@link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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 * A contract for inspecting and potentially modifying request data values such
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 *
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 * 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.
 *
 * 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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* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c8f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>
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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

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

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

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="isc.copyright.text"/>
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
      Copyright (C) <xsl:text/>
      <xsl:call-template name="copyright.years">
        <xsl:with-param name="years" select="year"/>
      </xsl:call-template>
    </xsl:for-each>
  </xsl:call-template>
</xsl:variable>
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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/propertyeditors/FileEditor.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
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1.187 cxf-rt-frontend-jaxrs 2.2.6

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1.188 appengine-api-labs 1.9.84

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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock-web/portlet/MockPortletRequestDispatcher.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock-web/portlet/MockEvent.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/test/context/testng/AbstractTestNGSpringContextTests.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockJspWriter.java

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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/portlet/MockResourceURL.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/portlet/MockRenderRequest.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/portlet/MockRenderResponse.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/portlet/MockStateAwareResponse.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/junit4/statements/RunAfterTestClassCallbacks.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockCacheControl.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/annotation/NotTransactional.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/annotation/ProfileValueSourceConfiguration.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/transaction/AfterTransaction.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/transaction/BeforeTransaction.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/junit4/statements/RunFailOnTimeout.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/ContextConfiguration.java

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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/portlet/MockEventRequest.java

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 */

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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/test/context/junit4/AbstractTransactionalJUnit4SpringContextTests.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/portlet/MockPortletSession.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/portlet/MockPortletContext.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockMultipartActionRequest.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockMultipartHttpServletRequest.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockRedirectedAttributesMap.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockRequestDispatcher.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockRequestContextHolder.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockSession.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/MockHttpServletRequest.java
1.190 libxfixes 5.0.3 1.el7

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1.194 libsemanage 2.5-14.el7

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

Thanks,
Jorge

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

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

Okay, a few more questions:

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

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

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

Thanks again,

~tom

==
Fedora Project

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

1.199 plexus-sec-dispatcher 1.3

1.199.1 Available under license:

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

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 */

Found in path(s):
* /opt/cola/permits/1136703541_1613864667.22/0/plexus-sec-dispatcher-1-3-sources-1-jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcher.java
* /opt/cola/permits/1136703541_1613864667.22/0/plexus-sec-dispatcher-1-3-sources-1-jar/org/sonatype/plexus/components/sec/dispatcher/DefaultSecDispatcher.java
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# here. Please keep the list sorted by first names.

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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/es/SpanishMinimalStemmer.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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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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mecab-ipadic-2.7.0-20070801

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1.203 jopt-simple 5.0.3

1.204 classmate 1.0.0
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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You must give prominent notice with each copy of the work that the
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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
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* /opt/cola/permits/1137268515_1614043140.38/0/spring-core-4-3-30-release-sources-2-
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  jar/org/springframework/core/style/ToStringCreator.java
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* /opt/cola/permits/1137268515_1614043140.38/0/spring-core-4-3-30-release-sources-2-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /opt/cola/permits/1137268515_1614043140.38/0/spring-core-4-3-30-release-sources-2-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
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 * jar/org/springframework/core/serializer/support/SerializationFailedException.java
 * /opt/cola/permits/1137268515_1614043140.38/0/spring-core-4-3-30-release-sources-2-
 * jar/org/springframework/core/SpringVersion.java
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 * jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
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 * jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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 * jar/org/springframework/core/io/FileSystemResourceLoader.java
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 * jar/org/springframework/util/comparator/NullSafeComparator.java
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 * jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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 * jar/org/springframework/core/io/FileSystemResourceLoader.java
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 * jar/org/springframework/util/comparator/ComparableComparator.java
 * /opt/cola/permits/1137268515_1614043140.38/0/spring-core-4-3-30-release-sources-2-
 * jar/org/springframework/core/task/TaskTimeoutException.java
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jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
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  * /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3.jar/org/springframework/core/convert/support/ConversionUtils.java
  * /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3.jar/org/springframework/core/convert/ObjectToCollectionConverter.java
  * /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3.jar/org/springframework/core/support/ResourcePatternResolver.java
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  * /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3.jar/org/springframework/core/support/ObjectToCollectionConverter.java
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* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/convert/BeanPropertyDescriptor.java
* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
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* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/convert/FieldDescriptor.java
* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/env/CommandLineArgs.java
* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/convert/support/StringToBooleanConverter.java

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* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/NamedInheritableThreadLocal.java
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* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/AliasRegistry.java
* /opt/cola/permits/1136704102_1613864759.01/0/spring-core-3-2-11-release-sources-3-jar/org/springframework/core/NestedExceptionUtils.java
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1.217 libdrm 2.4.83 2.el7

1.218 activemq-shiro 5.16.1

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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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(For example, a function in a library to compute square roots has
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You should also get your employer (if you work as a programmer) or your
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library "Frob" (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.223 spring-context 4.2.1.RELEASE

1.223.1 Available under license :

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*/
/**
 * @link FactoryBean that obtains a WebSphere (@link javax.management.MBeanServer)
 * reference through WebSphere's proprietary (@code AdminServiceFactory) API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the (@code MBeanServer) for bean references.
 * This FactoryBean is a direct alternative to (@link MBeanServerFactoryBean),
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

Found in path(s):
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/ApplicationEventPublisherAware.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/annotation/AdviceMode.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/annotation/BeanAnnotationHelper.java

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 */

/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation. Callers
* are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

Found in path(s):
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
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  jar/org/springframework/validation/MapBindingResult.java
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  jar/org/springframework/remoting/RemoteAccessException.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jndi/JndiTemplate.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/support/MessageSourceAccessor.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/remoting/soap/SoapFaultException.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/scheduling/config/TriggerTask.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/MessageSourceResolvable.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/validation/FieldError.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jmx/export/naming/SelfNaming.java
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jar/org/springframework/context/expression/BeanFactoryResolver.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/validation/BindException.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/context/event/ContextRefreshedEvent.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/remoting/support/RemotingSupport.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/jmx/export/AnnotationMBeanExporter.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/security/web/SpringSecurityConfigurator.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2.jar/org/springframework/validation/validation/AbstractBindingResult.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
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jar/org/springframework/remoting/support/RemoteAccessor.java
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jar/org/springframework/format/Parser.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
jar/org/springframework/jmx/support/ObjectNameManager.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
jar/org/springframework/context/event/ApplicationContextEvent.java

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 */
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@link Import @Import` annotations, and `@link ComponentScan @ComponentScan` annotations associated with that class will be subject to the conditions.

**NOTE**: Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@Conditional` itself is not declared as `@link java.lang.annotation.Inherited @Inherited`; furthermore, any custom composed annotation that is meta-annotated with `@Conditional` must not be declared as `@Inherited`.

@since 4.0

@see Condition

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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar
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   jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
 * /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
   jar/org/springframework/context/annotation/ScopedProxyCreator.java
 * /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
   jar/org/springframework/jmx/export/MBeanExportOperations.java

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 * /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
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 * /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
   jar/org/springframework/jmx/export/metadata/ManagedOperation.java

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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/springframework/cache/interceptor/SimpleKeyGenerator.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/springframework/cache/interceptor/NamedCacheResolver.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/springframework/context/support/LiveBeansView.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/jndi/JndiLocatorSupport.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/context/support/FileSystemXmlApplicationContext.java

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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
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  jar/org/springframework/scripting/support/StandardScriptEvaluator.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
  jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-
jar/org/springframework/context/annotation/PropertySource.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/annotation/ConditionContext.java
* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/context/support/AbstractMessageSource.java
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* /opt/cola/permits/1152322422_1618219430.76/0/spring-context-4-2-1-release-sources-2-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
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Version 2.1, February 1999
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
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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 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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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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1.228 babel 0.9.6

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* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
  jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
  jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
  jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
  jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
  jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
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* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3.2.3-release-sources-2.jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3.2.3-release-sources-2.jar/org/springframework/scheduling/quartz/JobDetailAwareTrigger.java

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  jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
  jar/org/springframework/mail/MailMessage.java
* /opt/cola/permits/1152477936_1618244813.71/0/spring-context-support-3-2-3-release-sources-2-
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<title>SQLite Copyright</title>
<style type="text/css">
body {
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    font-family: Verdana, sans-serif;
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a { color: #044a64 }
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.logo { position:absolute; margin:3px; }
tagline {
    float:right;
text-align:right;
font-style:italic;
width:300px;
margin:12px;
margin-top:58px;
}

.menubar {
clear: both;
border-radius: 8px;
background: #044a64;
padding: 0px;
margin: 0px;
cell-spacing: 0px;
}
toolbar {
text-align: center;
line-height: 1.6em;
margin: 0;
padding: 0px 8px;
}
toolbar a { color: white; text-decoration: none; padding: 6px 12px; }
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.content dt { font-weight:bold; }
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/NamedAccessNavigator.java

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* $Date: 2007/05/02 14:33:29 $
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$Id: SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp $

*/

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/ /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/SelfAxisIterator.java

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.getOrElse($Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NameFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $ $Revision: 1.11 $ $Date: 2006/02/05 21:47:41 $

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  * $Id: NameFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/NameFunction.java
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* $Id: Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen.Navigator.java

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 * $Revision: 1.8 $
 * $Date: 2006/11/09 16:21:04 $
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*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/expr/BinaryExpr.java

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/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMinusExpr.java
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2007/05/05 18:08:55 elharo Exp $
 * $Revision: 1.57 $
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* $Id: DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/dom/DocumentNavigator.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/AnyChildNodeTest.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathFactory.java,v 1.13 2007/05/02
14:32:38 elharo Exp $
* $Revision: 1.13 $
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  21:47:40 elharo Exp $
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 * $Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
Open Source Used In OnPrem2.1 2.2  2396

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/expr/iter/IterableAncestorAxis.java

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$Id: DefaultMultiplicativeExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp$

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2006/02/05 21:47:41 elharo Exp$

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* $Id: UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp $
*/

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  * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/UnresolvableException.java
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 * 21:47:40 elharo Exp $
 * $Revision: 1.10 $
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* $Id: IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/iter/IterableParentAxis.java
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* $Id: SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/function/SubstringAfterFunction.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAllNodeStep.java
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* $Id: UnionExpr.java,v 1.7 2006/11/08 15:57:20 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/expr/DefaultAbsolutePathPath.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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* $Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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 * $Date: 2006/11/08 19:06:30 $
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* $Id: UnaryExpr.java,v 1.7 2006/11/08 19:06:30 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/UnaryExpr.java
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  21:47:40 elharo Exp $
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* $Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultTruthExpr.java

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/JaxenConstants.java
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/JaxenRuntimeException.java

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* $Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LocalNameFunction.java,v 1.14
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* $Revision: 1.14 $
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* $Id: LocalNameFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/LocalNameFunction.java

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* $Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $

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* $Id: CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
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* $Id: XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp $

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 * $Revision: 1.6 $
 * $Date: 2006/11/08 18:52:02 $
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jar/org/jaxen/expr/TextNodeStep.java
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/*
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  jar/org/jaxen/expr/Predicated.java
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* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/AdditiveExpr.java

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  18:49:26 elharo Exp$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultOrExpr.java
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* $Id: CeilingFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/CeilingFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.8 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/pattern/NodeTypeTest.java

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* $Id: ProcessingInstructionNodeStep.java,v 1.5 2006/11/08 15:44:33 elharo Exp $
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* /opt/cola/permits/1018361815_161221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: IterablePrecedingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java

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* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: Function.java,v 1.8 2006/02/05 21:47:41 elharo Exp $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/Function.java
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* $Date: 2006/11/09 18:20:11 $
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* /opt/cola/permits/1018361815_161221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/util/DescendantAxisIterator.java
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* $Id: IterableDescendantOrSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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* $Id: DefaultAndExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultAndExpr.java

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* $Id: NamespaceNode.java,v 1.25 2006/07/03 11:14:05 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/NamespaceNode.java
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* $Id: IterablePrecedingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/IdFunction.java,v 1.13 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.13 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/function/IdFunction.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/RoundFunction.java,v 1.12 2006/02/05
* 21:47:41 elharo Exp $
* $Revision: 1.12 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultModExpr.java
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21:47:41 elharo Exp $
* $Revision: 1.10 $
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Found in path(s):
  /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/base/XPathReader.java
No license file was found, but licenses were detected in source scan.

  /*
  * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/UnionPattern.java,v 1.8 2006/02/05
  21:47:42 elharo Exp $ 
  * $Revision: 1.8 $
  * $Date: 2006/02/05 21:47:42 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/UnionPattern.java
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* $Id: SimpleNamespaceContext.java,v 1.18 2006/06/03 20:19:26 elharo Exp $
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/ /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-l-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/NodeComparator.java
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* $Id: SimpleFunctionContext.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
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jar/org/jaxen/XPathSyntaxException.java
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* $Id: AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/JaxenException.java

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* $Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/xslt/DocumentFunction.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DOMXPath.java,v 1.10 2006/06/03
20:44:16 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/06/03 20:44:16 $
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$Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/DOMXPath.java

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* $Id: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
* /

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/UpperFunction.java
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UnsupportedAxisException.java

Found in path(s):
/ opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/UnsupportedAxisException.java

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 Operator.java

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* $Id: Operator.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/Operator.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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/*
 * $Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp $
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* $Id: JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp $
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jar/org/jaxen/JaxenHandler.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16
2006/11/13 22:10:09 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/13 22:10:09 $
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* $Id: LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp $
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* $Date: 2006/06/03 20:50:12 $
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* $Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
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* $Id: DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultBinaryExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NotFunction.java,v 1.9 2006/02/05
  21:47:41 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

Found in path(s):
*/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/FollowingAxisIterator.java

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/Axis.java
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/ *
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05
  21:47:42 elharo Exp $
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* $Id: IterableFollowingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
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* $Id: QualifiedName.java,v 1.12 2006/06/01 13:19:30 elharo Exp $  
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/QualifiedName.java
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18:49:27 elharo Exp $  
* $Revision: 1.17 $  
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* $Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
* /

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  jar/org/jaxen/function/SubstringBeforeFunction.java
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* $Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/util/SingletonList.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ConcatFunction.java,v 1.9 2006/02/05
  21:47:41 elharo Exp $
* $Revision: 1.9 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ConcatFunction.java
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* $Id: DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp $ *
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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* $Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp $
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* $Id: IterableFollowingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
* /

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/expr/iter/IterableFollowingAxis.java

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* $Revision: 1.10 $
* $Date: 2006/06/03 20:29:30 $
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* $Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
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 * $Revision: 1.11 $
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$Id: SimpleVariableContext.java,v 1.19 2006/06/03 20:19:54 elharo Exp $

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultNumberExpr.java
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  11:58:06 elharo Exp $
* $Revision: 1.10 $
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* $Id: NamespaceContext.java,v 1.10 2006/07/03 11:58:06 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/NamespaceContext.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionContext.java,v 1.10 2006/02/05
* 21:47:41 elharo Exp $
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   jar/org/jaxen/expr/DefaultLessThanExpr.java
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13:59:38 elharo Exp $
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* $Id: NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
*/

Found in path(s):
/ /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NamespaceUriFunction.java
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* $Date: 2006/02/05 21:47:41 $
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* $Id: BooleanFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp $ */

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/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/BooleanFunction.java
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  /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
No license file was found, but licenses were detected in source scan.

*/
  $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NameStep.java,v 1.5 2006/11/08 17:10:02
elharo Exp $
  $Revision: 1.5 $
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* $Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathHandler.java,v 1.9 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.9 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/XPathHandler.java
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* $Id: LowerFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1018361815_161221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/function/SubstringFunction.java
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* $Id: IterableDescendantAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $

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* $Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp $
*/

Found in path(s):
/ opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/LocationPathPattern.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05
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 * $Revision: 1.11 $
 * $Date: 2006/07/03 11:58:31 $
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* $Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/base/Verifier.java
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  16:21:05 elharo Exp $
 * $Revision: 1.6 $
 * $Date: 2006/11/09 16:21:05 $
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* $Id: MultiplicativeExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
* /

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/MultiplicativeExpr.java
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elharo Exp $
* $Revision: 1.50 $
* $Date: 2007/04/16 15:44:37 $
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* $Id: BaseXPath.java,v 1.50 2007/04/16 15:44:37 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/BaseXPath.java

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* $Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/StartsWithFunction.java
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* $Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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License Mixing with apps, libcurl and Third Party Libraries

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

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

One common dilemma is that GPL[1]-licensed code is not allowed to be linked
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distributing them as binaries would be to violate the GPL license - unless you
accompany your license with an exception[2]. This particular problem was
addressed when the Modified BSD license was created, which does not have the
announcement clause that collides with GPL.
libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

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GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.
zlib http://www.gzip.org/zlib/zlib_license.html

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

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

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

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

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* /opt/cola/permits/1143552040_1615694948.28/0/spring-expression-3-2-8-release-sources-2-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/1143552040_1615694948.28/0/spring-expression-3-2-8-release-sources-2-jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1143552040_1615694948.28/0/spring-expression-3-2-8-release-sources-2-jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1143552040_1615694948.28/0/spring-expression-3-2-8-release-sources-2-jar/org/springframework/expression/spel/ast/Elvis.java

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* $Id: IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: NumberFunction.java,v 1.18 2006/02/05 21:47:41 elharo Exp $
*/

Found in path(s):
/ /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/NumberFunction.java
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/**
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/09 18:20:12 $
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* $Id: FollowingSiblingAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java
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Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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айл: DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp
*/

Found in path(s):
* /opt/cola/permits/1000765675_160871209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java

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ail: Revision: 1.9
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 * $Id: LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp $
Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/LiteralExpr.java

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* $Id: MultiplicativeExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/MultiplicativeExpr.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultStep.java,v 1.21 2006/02/05
21:47:40 elharo Exp $
* $Revision: 1.21 $
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* $Id: DefaultStep.java,v 1.21 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultStep.java

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/expr/DefaultTextNodeStep.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnresolvableException.java,v 1.7 2006/06/03
* 20:21:05 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:21:05 $
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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
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17:17:32 elharo Exp $
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$Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp $
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 * $Id: TextNodeStep.java,v 1.6 2006/11/08 18:52:02 elharo Exp $
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* /opt/cola/permits/1000765675_160871209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableSelfAxis.java,v 1.7 2006/06/03
 * 20:47:22 elharo Exp $
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* $Id: IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp$
* /

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/iter/IterableSelfAxis.java
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  2007/05/05 18:08:55 elharo Exp$
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* $Date: 2007/05/05 18:08:55 $
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* $Id: DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/dom/DocumentNavigator.java

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* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/pattern/NamespaceTest.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathExpr.java,v 1.9 2006/06/03
  20:52:26 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/06/03 20:52:26 $
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  jar/org/jaxen/expr/DefaultXPathExpr.java
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  /*
  $Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp $
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* $Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultMultiplyExpr.java
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  2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.10 $
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* $Id: EvaluateFunction.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/EvaluateFunction.java
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  jar/org/jaxen/expr/DefaultPathExpr.java
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  2006/11/09 16:07:36 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenConstants.java
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenRuntimeException.java
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 $Id: XPath.java,v 1.13 2007/05/02 15:00:13 elharo Exp $

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 $Id: DocumentNavigator.java,v 1.8 2006/06/03 20:35:31 elharo Exp $

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* $Id: ProcessingInstructionNodeStep.java,v 1.5 2006/11/08 15:44:33 elharo Exp $
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11:58:06 elharo Exp $
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/* $Id: IterableChildAxis.java,v 1.11 2006/06/03 20:50:12 elharo Exp $

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* $Revision: 1.17 $
* $Date: 2006/11/30 18:49:27 $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultFunctionCallExpr.java

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/*
15:42:39 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/08 15:42:39 $
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* $Id: CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/CommentNodeStep.java

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  13:59:38 elharo Exp $
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* $Date: 2006/11/08 13:59:38 $
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* /opt/cola/permits/1000765675_160871209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/XPathFunctionContext.java
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/*
$Id: Context.java,v 1.20 2006/10/15 21:08:16 elharo Exp $

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jar/org/jaxen/Context.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NoNodeTest.java,v 1.7 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: NoNodeTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
* /

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NoNodeTest.java
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/*
$Id: ContextSupport.java,v 1.13 2006/06/03 20:06:06 elharo Exp $
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* $Id: SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1000765675_160871209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/SubstringAfterFunction.java
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/*
$Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp $
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* $Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
*/

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jar/org/jaxen/function/xslt/DocumentFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SelfAxisIterator.java,v 1.10 2007/05/02
14:33:29 elharo Exp $
* $Revision: 1.10 $
* $Date: 2007/05/02 14:33:29 $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/util/SelfAxisIterator.java
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* $Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.33 2006/02/05
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* $Revision: 1.33 $
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*
*$Id: StringFunction.java,v 1.33 2006/02/05 21:47:41 elharo Exp$
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/StringFunction.java
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  elharo Exp$
*$Revision: 1.15 $
*$$Date: 2006/03/30 13:53:11 $
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/ /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenHandler.java
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* $Id: XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/XPathReader.java
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  jar/org/jaxen/expr/FilterExpr.java
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$Id: DefaultProcessingInstructionNodeStep.java,v 1.18 2007/01/06 12:21:12 elharo Exp $

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* $Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LocalNameFunction.java,v 1.14
  2006/02/05 21:47:41 elharo Exp $
 * $Revision: 1.14 $
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* $Id: Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/base/Token.java
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  2006/02/05 21:47:40 elharo Exp $
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* $Id: DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultEqualityExpr.java

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$Id: RelationalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $

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 * $Id: LogicalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/LogicalExpr.java

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* $Id: SimpleVariableContext.java,v 1.19 2006/06/03 20:19:54 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/SimpleVariableContext.java
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* $Id: StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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  11:58:31 elharo Exp $
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* $Id: NameStep.java,v 1.5 2006/11/08 17:10:02 elharo Exp$
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/NameStep.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabeans/JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp$
* $Revision: 1.6 $
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  jar/org/jaxen/javabean/JavaBeanXPath.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTest.java,v 1.6 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.6 $
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* $Id: DefaultAbsoluteLocationPath.java,v 1.18 2006/11/30 18:49:27 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultAbsoluteLocationPath.java

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* $Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
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jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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* $Id: FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp $
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* $Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $ */

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* */
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* 21:47:42 elharo Exp $
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* $Id: Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp $

*/

Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/Navigator.java
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* $Id: PositionFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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/opt/ cola/ permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/PositionFunction.java
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/DescendantAxisIterator.java
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* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
 * $Revision: 1.8 $
 * $Date: 2006/02/05 21:47:42 $
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* $Id: NodeTypeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $

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* /opt/cola/permits/1000765675_160871209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NodeTypeTest.java

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* $Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
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*$Id: IdFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/function/IdFunction.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathFactory.java,v 1.13 2007/05/02
14:32:38 elharo Exp $ *
* $Revision: 1.13 $ *
* $Date: 2007/05/02 14:32:38 $ *
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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18:49:26 elharo Exp $
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* $Id: JaxenException.java,v 1.17 2006/06/03 20:27:21 elharo Exp $

* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenException.java

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NameTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
 * $Revision: 1.7 $
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* $Id: FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp $
*/

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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/FunctionCallException.java

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Found in path(s):
*/opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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$Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp $

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/opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java

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* $Id: BaseXPath.java,v 1.50 2007/04/16 15:44:37 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/BaseXPath.java
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/UnsupportedAxisException.java

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
 * $Revision: 1.8 $
 * $Date: 2006/02/05 21:47:42 $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/PatternHandler.java
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* $Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/TranslateFunction.java
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* $Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultRelationalExpr.java

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* $Id: TokenTypes.java,v 1.12 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/base/TokenTypes.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LastFunction.java,v 1.10 2006/02/05
21:47:41 elharo Exp $
 * $Revision: 1.10 $
 * $Date: 2006/02/05 21:47:41 $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingAxisIterator.java,v 1.11
2006/11/13 22:10:09 elharo Exp $
* $Revision: 1.11 $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
No license file was found, but licenses were detected in source scan.

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2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: EndsWithFunction.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/EndsWithFunction.java
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/AncestorAxisIterator.java

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* $Revision: 1.8 $

* $Date: 2006/11/09 16:21:04 $

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* $Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/BinaryExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16
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Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultAndExpr.java
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* $Id: DefaultAndExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
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* $Revision: 1.14 $
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* $Id: SimpleFunctionContext.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1000765675_160871209.690/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/SimpleFunctionContext.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08
  15:41:05 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/08 15:41:05 $
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* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/AllNodeStep.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FloorFunction.java,v 1.11 2006/02/05 
  21:47:41 elharo Exp $
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*/

Found in path(s):
* /opt/cola/permits/1000765675_1608711209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableAxis.java
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 * $Revision: 1.15 $ 
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*
* $Id: LocationPath.java,v 1.9 2006/11/08 17:02:21 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1000765675_160871209.69/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/LocationPath.java

1.263 jackson-annotations 2.9.8

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1.264 os-prober 1.58-9.0.1.el7

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1.265 gstreamer 0.10.36 7.el7

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1.267 groovy 3.0.7
1.267.1 Available under license:
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/*
 * This file is adapted from the Antlr4 Java grammar which has the following license
 * 
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 * under the License.
/*

/**
 * The Groovy grammar is based on the official grammar for Java:
 * https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
 */
parser grammar GroovyParser;

options {
    tokenVocab = GroovyLexer;
    contextSuperClass = GroovyParserRuleContext;
    superClass = AbstractParser;
}

@header {
    import java.util.Map;
    import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

    public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
        private Map metaDataMap = null;

        public GroovyParserRuleContext() {
        }

        public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
            super(parent, invokingStateNumber);
        }

        @Override
        public Map<?, ?> getMetaDataMap() {
            return this.metaDataMap;
        }

        @Override
        public void setMetaDataMap(Map<?, ?> metaDataMap) {
            this.metaDataMap = metaDataMap;
        }

        @Override
        public int getSyntaxErrorSource() {
            return GroovySyntaxError.PARSER;
        }

        @Override
        public int getErrorLine() {

    }
Token token = _input.LT(-1);

if (null == token) {
    return -1;
}

return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getCharPositionInLine() + 1 + token.getText().length();
}
}

// starting point for parsing a groovy file
compilationUnit
    : nls (packageDeclaration sep?)? scriptStatements? EOF
    ;

scriptStatements
    : scriptStatement (sep scriptStatement)* sep?
    ;

scriptStatement
    : importDeclaration // Import statement. Can be used in any scope. Has "import x as y" also.
        | typeDeclaration
        // validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
        | { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
        | methodDeclaration[3, 9]
        | statement
        ;

packageDeclaration
    : annotationsOpt PACKAGE qualifiedName
    ;

importDeclaration
    : annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
    ;
typeDeclaration
  : classOrInterfaceModifiersOpt classDeclaration
  ;

modifier
  : classOrInterfaceModifier
  | m=( NATIVE
  | SYNCHRONIZED
  | TRANSIENT
  | VOLATILE
  | DEF
  | VAR
  )
  ;

modifiersOpt
  : (modifiers nls)?
  ;

modifiers
  : modifier (nls modifier)*
  ;

classOrInterfaceModifiersOpt
  : (classOrInterfaceModifiers
       NL* /* Use `NL*` here for better performance, so DON'T replace it with `nls` */
    )?
  ;
classOrInterfaceModifiers
  : classOrInterfaceModifier (nls classOrInterfaceModifier)*
  ;
classOrInterfaceModifier
  : annotation // class or interface
  | m=( PUBLIC   // class or interface
       | PROTECTED // class or interface
       | PRIVATE   // class or interface
       | STATIC    // class or interface
       | ABSTRACT  // class or interface
       | FINAL     // class only -- does not apply to interfaces
       | STRICTFP  // class or interface
       | DEFAULT   // interface only -- does not apply to classes
       )
  ;

variableModifier
  : annotation
// Groovy supports declaring local variables as instance/class fields,
// e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
// e.g. import groovy.transform.*; def a = { @Field public List awe = [1, 2, 3] }
// Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
// annotations(e.g. @Field)
// TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being

/**
 * t   0: class; 1: interface; 2: enum; 3: annotation; 4: trait
 */
classDeclaration
locals[int t ]:
( CLASS { $t = 0; }
| INTERFACE { $t = 1; }
| ENUM { $t = 2; }
| AT INTERFACE { $t = 3; }
| TRAIT { $t = 4; }
)
identifier
(nls typeParameters)?
(nls EXTENDS nls scs=typeList)?
(nls IMPLEMENTS nls is=typeList)?
nls classBody[$t]
;

// t see the comment of classDeclaration
classBody[int t ]:
LBRACE nls
( /* Only enum can have enum constants */
  2 == $t )?
  enumConstants (nls COMMA)? sep?
| )
  (classBodyDeclaration[$t] (sep classBodyDeclaration[$t]*)? sep? RBRACE
  ;
enumConstants:
  enumConstant (nls COMMA nls enumConstant)*
;
enumConstant:
  annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;
classBodyDeclaration[int t ]:
  (STATIC nls)? block
  | memberDeclaration[$t]
  ;
memberDeclaration[int t ]:
  methodDeclaration[0, $t]
  | fieldDeclaration
  | modifiersOpt classDeclaration
  ;
/**
* t 0: *class member* all kinds of method declaration AND constructor declaration,
methodDeclaration[int t, int ct]
   : modifiersOpt typeParameters? returnType[$ct]?
      methodName formalParameters
      ( DEFAULT nls elementValue
        | (nls THROWS nls qualifiedClassNameList)?
        | (nls methodBody)?
       )?
   ;

methodName
   : identifier
      | stringLiteral
   ;

returnType[int ct]
   : standardType
      | VOID
   ;

fieldDeclaration
   : variableDeclaration[1]
   ;

variableDeclarators
   : variableDeclarator (COMMA nls variableDeclarator)*
   ;

variableDeclarator
   : variableDeclaratorId (nls ASSIGN nls variableInitializer)?
   ;

variableDeclaratorId
   : identifier
   ;

variableInitializer
   : enhancedStatementExpression
   ;

variableInitializers
   : variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
emptyDims
  : (annotationsOpt LBRACK RBRACK)+
  :

emptyDimsOpt
  : emptyDims?
  :

standardType
options { baseContext = type; }
  : annotationsOpt
    ( primitiveType
    | standardClassOrInterfaceType
    )
    emptyDimsOpt
    :

type
  : annotationsOpt
    ( ( primitiveType
    | // !!! Error Alternative !!!
    VOID
    )
    | generalClassOrInterfaceType
    )
    emptyDimsOpt
    :

classOrInterfaceType
  : ( qualifiedClassName
    | qualifiedStandardClassName
    ) typeArguments?
  :

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
  : qualifiedClassName typeArguments?
  :

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
   : qualifiedStandardClassName typeArguments?
   :

primitiveType
   : BuiltInPrimitiveType
   :

typeArguments
   : LT nls typeArgument (COMMA nls typeArgument)* nls GT
   :

typeArgument
   : type
   | annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
   :

annotatedQualifiedClassName
   : annotationsOpt qualifiedClassName
   :

qualifiedClassNameList
   : annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
   :

formalParameters
   : LPAREN formalParameterList? rparen
   :

formalParameterList
   : (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
   :

thisFormalParameter
   : type THIS
   :

formalParameter
   : variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
   :

methodBody
   : block
   :

qualifiedName
   : qualifiedNameElement (DOT qualifiedNameElement)*
   :
/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */

qualifiedNameElement
  :   identifier
    |   DEF
    |   IN
    |   AS
    |   TRAIT
    :

qualifiedNameElements
  :   (qualifiedNameElement DOT)*
    :

qualifiedClassName
  :   qualifiedNameElements identifier
    :

qualifiedStandardClassName
  :   qualifiedNameElements className (DOT className)*
    :

literal
  :   IntegerLiteral                           #integerLiteralAlt
    |   FloatingPointLiteral                     #floatingPointLiteralAlt
    |   stringLiteral                           #stringLiteralAlt
    |   BooleanLiteral                          #booleanLiteralAlt
    |   NullLiteral                             #nullLiteralAlt
    :

// GSTRING

gstring
  :   GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
    :

gstringValue
  :   gstringPath
    |   closure
    :

gstringPath
  :   identifier GStringPathPart*
    :

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
:lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
:standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }
   : formalParameters

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is limited
// | variableDeclaratorId
;

standardLambdaParameters
   : formalParameters
   | variableDeclaratorId
;

lambdaBody
:block
|statementExpression
;

// CLOSURE
closure
   : LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
   : closure
   | lambdaExpression
   

blockStatementsOpt
   : blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
  : (annotation (nls annotation)* nls)?
  ;

annotation
  : AT annotationName (nls LPAREN elementValues? rparen)?
  ;

elementValues
  : elementValuePairs
  | elementValue
  ;

annotationName : qualifiedClassName ;

elementValuePairs
  : elementValuePair (COMMA elementValuePair)*
  ;
elementValuePair
  : elementValuePairName nls ASSIGN nls elementValue
  ;
elementValuePairName
  : identifier
  | keywords
  ;

// TODO verify the potential performance issue because rule expression contains sub-rule
elementValue
  : elementValueArrayInitializer
  | annotation
  | expression
  ;
elementValueArrayInitializer
  : LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
  ;

// STATEMENTS / BLOCKS

block
**blockStatement**

:   **localVariableDeclaration**
    |   statement
    ;

**localVariableDeclaration**

:   { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
    variableDeclaration[0]
    ;

/**
 * t 0: local variable declaration; 1: field declaration
 */
variableDeclaration[int t]

:   modifiers nls
    ( type? variableDeclarators
    |   typeNamePairs nls ASSIGN nls variableInitializer
    )
    |   type variableDeclarators
    ;

typeNamePairs

:   LPAREN typeNamePair (COMMA typeNamePair)* rparen
    ;
typeNamePair

:   type? variableDeclaratorId
    ;
variableNames

:   LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
    ;
conditionalStatement

:   ifElseStatement
    |   switchStatement
    ;
ifElseStatement

:   IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
    ;
switchStatement

:   SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
loopStatement
  : FOR LPAREN forControl rparen nls statement               #forStmtAlt
  | WHILE expressionInPar nls statement                       #whileStmtAlt
  | DO nls statement nls WHILE expressionInPar                #doWhileStmtAlt
  :
continueStatement
  : CONTINUE
     identifier?
  :
breakStatement
  : BREAK
     identifier?
  :
tryCatchStatement
  : TRY resources? nls block
     (nls catchClause)*
     (nls finallyBlock)?
  :
assertStatement
  : ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
  :
statement
  : block                                                                 #blockStmtAlt
  | conditionalStatement                                                                 #conditionalStmtAlt
  | loopStatement                                                                 #loopStmtAlt
  | tryCatchStatement                                                                 #tryCatchStmtAlt
  | SYNCHRONIZED expressionInPar nls block                                                                   #synchronizedStmtAlt
  | RETURN expression?                                                                                   #returnStmtAlt
  | THROW expression                                                                                      #throwStmtAlt
  | breakStatement                                                                                         #breakStmtAlt
  | continueStatement                                                                                      #continueStmtAlt
  | identifier COLON nls statement                                                                          #labeledStmtAlt
  | assertStatement                                                                                         #assertStmtAlt
  | localVariableDeclaration                                                                            #localVariableDeclarationStmtAlt
  | statementExpression                                                                                    #expressionStmtAlt
  | SEMI                                                                                                   #emptyStmtAlt
  :
catchClause
  : CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
  ;
catchType
  : qualifiedClassName (BITOR qualifiedClassName)*
   ;

finallyBlock
  : FINALLY nls block
   ;

resources
  : LPAREN nls resourceList sep? rparen
   ;

resourceList
  : resource (sep resource)*
   ;

resource
  : localVariableDeclaration
     | expression
   ;

/** Matches cases then statements, both of which are mandatory.
 * To handle empty cases at the end, we add switchLabel* to statement.
 */
switchBlockStatementGroup
  : switchLabel (nls switchLabel)* nls blockStatements
   ;

switchLabel
  : CASE expression COLON
     | DEFAULT COLON
   ;

forControl
  : enhancedForControl
     | classicalForControl
   ;

enhancedForControl
  : variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
   ;

classicalForControl
  : forInit? SEMI expression? SEMI forUpdate?
   ;
forInit
  :  localVariableDeclaration
     |  expressionList[false]
     ;

forUpdate
  :  expressionList[false]
     ;

// EXPRESSIONS

castParExpression
  :  LPAREN type rparen
     ;

parExpression
  :  expressionInPar
     ;

definition
expressionInPar
  :  LPAREN enhancedStatementExpression rparen
     ;

definition
expressionList[boolean canSpread]
  :  expressionListElement[ScanSpread] (COMMA expressionListElement[ScanSpread])*
     ;

definition
expressionListElement[boolean canSpread]
  :  MUL? expression
     ;

definition
enhancedStatementExpression
  :  statementExpression
     |  standardLambdaExpression
     ;

statementExpression
  :  commandExpression                   #commandExprAlt
     ;

postfixExpression
  :  pathExpression op=(INC | DEC)?
     ;

definition
expression
  // qualified names, array expressions, method invocation, post inc/dec, type casting (level 1)
  // The cast expression must be put before pathExpression to resolwe the ambiguities between type casting and call
on parentheses expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression
| postfixExpression

// ~(BNOT)!/(LNOT) (level 1)
| (BITNOT | NOT) nls expression

// math power operator (***) (level 2)
| left=expression op=POWER nls right=expression

// ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression

// bit shift expressions (level 6)
| left=expression nls
  ( ( dlOp=LT LT
    | tgOp=GT GT GT
    | dgOp=GT GT
  )
  | rangeOp=( RANGE_INCLUSIVE
    | RANGE_EXCLUSIVE
  )
) nls
right=expression

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression

// equality/inequality (==/!=) (level 8)
| left=expression nls
  op=( IDENTICAL
    | NOT_IDENTICAL
    | EQUAL
    | NOTEQUAL
    | SPACESHIP
  )
right=expression

// regex find and match (=~ and ==~) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...
// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
// bitwise or non-short-circuiting and (&) (level 9)
| left=expression nls op=BITAND nls right=expression #andExprAlt

// exclusive or (^) (level 10)
| left=expression nls op=XOR nls right=expression #exclusiveOrExprAlt

// bitwise or non-short-circuiting or (|) (level 11)
| left=expression nls op=BITOR nls right=expression #inclusiveOrExprAlt

// logical and (&&) (level 12)
| left=expression nls op=AND nls right=expression #logicalAndExprAlt

// logical or (||) (level 13)
| left=expression nls op=OR nls right=expression #logicalOrExprAlt

// conditional test (level 14)
| <assoc=right> con=expression nls
   ( QUESTION nls tb=expression nls COLON nls
     ELVIS nls
   )
   fb=expression #conditionalExprAlt

// assignment expression (level 15)
// "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
| <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression #multipleAssignmentExprAlt
| <assoc=right> left=expression nls
   op=( ADD.Assign
     | SUB_ASSIGN
     | MUL_ASSIGN
     | DIV_ASSIGN
     | AND_ASSIGN
     | OR_ASSIGN
     | XOR_ASSIGN
     | RSHIFT_ASSIGN
     | URSHIFT_ASSIGN
     | LSHIFT_ASSIGN
     | MOD_ASSIGN
     | POWER_ASSIGN
     | ELVIS_ASSIGN
   ) nls
   enhancedStatementExpression #assignmentExprAlt

;
castOperandExpression
options { baseContext = expression; }
: castPartExpression castOperandExpression  #castExprAlt
| postfixExpression  #postfixExprAlt

// ~(BNOT)/!(LNOT) (level 1)
| (BITNOT | NOT) nls castOperandExpression  #unaryNotExprAlt

// ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
| op=(INC | DEC | ADD | SUB) castOperandExpression  #unaryAddExprAlt
;

commandExpression
: expression

( [ !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) ]?
argumentList
| /* if pathExpression is a method call, no need to have any more arguments */
)

commandArgument*
;

commandArgument
: commandPrimary

// what follows is either a normal argument, parens, // an appended block, an index operation, or nothing // parens (a b already processed):
// a b c) d e -> a(b).c().d(e)
// a b c()) d e -> a(b).c().call().d(e)
// index (a b already processed):
// a b c[x] d e -> a(b).c[x].d(e)
// a b c[x][y] d e -> a(b).c[x][y].d(e)
// block (a b already processed):
// a b c {x} d e -> a(b).c({x}).d(e)
// parens/block completes method call
// index makes method call to property get with index
// ( pathElement+
| argumentList
)?
;

/**
 * A "path expression" is a name or other primary, possibly qualified by various * forms of dot, and/or followed by various kinds of brackets.
* It can be used for value or assigned to, or else further qualified, indexed, or called.
* It is called a "path" because it looks like a linear path through a data structure.
* Examples:  x.y, x?.y, x*.y, x.@y; x[ ], x[y], x[y,z]; x(), x(y), x(y,z); x[s ]; a.b[n].c(x).d[s]
* (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
* General expressions are built up from path expressions, using operators like 'x' and '='.

* t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5: namedPropertyArgs,
* 6: non-static inner class creator
*/

pathExpression returns [int t]
:
   (primary
   |
   // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }  
   { DOT == _input.LT(2).getType() }?
   STATIC
   ) (pathElement { $t = $pathElement.t; })*

pathElement returns [int t]
:
  nls
  |
  // AT: foo.@bar selects the field (or attribute), not property
  |
  ( DOT       // The all-powerful dot.
  |
  SPREAD_DOT // Spread operator: x*.y === x?.collect{it.y}
  |
  SAFE_DOT   // Optional-null operator:  x?.y  === (x==null)?null:x.y
  |
  SAFE_CHAIN_DOT // Optional-null chain operator:  x???.y.z  === x?.y?.z
  ) nls (AT | nonWildcardTypeArguments)?
  |
  METHOD_POINTER nls  // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo, "y")
  |
  METHOD_REFERENCE nls  // Method reference: System.out::println
  |
  namePart
  { $t = 1; }
  |
  DOT nls NEW creator[1]
  { $t = 6; }

  // Can always append a block, as foo{bar}
  |
  closureOrLambdaExpression
  { $t = 3; }
  |
  arguments
// Element selection is always an option, too.
// In Groovy, the stuff between brackets is a general argument list,
// since the bracket operator is transformed into a method call.
|    indexPropertyArgs
|       { $t = 4; }
|    namedPropertyArgs
|       { $t = 5; }
|    :

/****
* This is the grammar for what can follow a dot:  x.a, x.@a, x.&a, x.'a', etc.
*/
namePart
  :
   (  identifier

    // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
    |  stringLiteral

    |  dynamicMemberName

/****
* just a PROPOSAL, which has not been implemented yet!
* PROPOSAL, DECIDE:  Is this inline form of the 'with' statement useful?
* Definition:  a.{foo} === {with(a) {foo}}
* May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
|  block
*/

    // let's allow common keywords as property names
    |  keywords
   )
  ;

/****
* If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
* and the member selection is done only at runtime.  This forces a statically unchecked member access.
*/
dynamicMemberName
  :  parExpression
      |  gstring
     ;

/**** An expression may be followed by [...].
* Unlike Java, these brackets may contain a general argument list,
* which is passed to the array element operator, which can make of it what it wants.

* The brackets may also be empty, as in T[]. This is how Groovy names array types.
*

```groovy
indexPropertyArgs
  : QUESTION? LBRACK expressionList[true]? RBRACK
  :

namedPropertyArgs
  : QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
  :

primary
  :
    // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
    HashMap<String, Integer>::new
    // Though this is not a graceful solution, it is much faster than replacing `builtInType` with `type`
    identifier typeArguments? #identifierPrmrAlt
    | literal                  #literalPrmrAlt
    | gstring                  #gstringPrmrAlt
    | NEW nls creator[0]      #newPrmrAlt
    | THIS                     #thisPrmrAlt
    | SUPER                    #superPrmrAlt
    | parExpression            #parenPrmrAlt
    | closureOrLambdaExpression #closureOrLambdaExpressionPrmrAlt
    | list                     #listPrmrAlt
    | map                      #mapPrmrAlt
    | builtInType              #builtInTypePrmrAlt
  :

namedPropertyArgPrimary
options { baseContext = primary; }
  : identifier                  #identifierPrmrAlt
  | literal                     #literalPrmrAlt
  | gstring                     #gstringPrmrAlt
  | parExpression               #parenPrmrAlt
  :

namedArgPrimary
options { baseContext = primary; }
  : identifier                  #identifierPrmrAlt
  | literal                     #literalPrmrAlt
  | gstring                     #gstringPrmrAlt
  :

commandPrimary
options { baseContext = primary; }
  : identifier                  #identifierPrmrAlt
  | literal                     #literalPrmrAlt
  | gstring                     #gstringPrmrAlt
```
list:
  : LBRACK expressionList[true]? COMMA? RBRACK

map:
  : LBRACK
    ( mapEntryList COMMA?
    | COLON
    )
  RBRACK

mapEntryList:
  : mapEntry (COMMA mapEntry)*

mapEntry:
  : mapEntryLabel COLON nls expression
  | MUL COLON nls expression

mapEntryLabel:
  : keywords
  | primary

mapEntryArgList:
  options { baseContext = mapEntryList; }
  : mapEntryArg (COMMA mapEntryArg)*

mapEntryArg:
  options { baseContext = mapEntry; }
  : mapEntryArgLabel COLON nls expression
  | MUL COLON nls expression

mapEntryArgLabel:
  : keywords
namedPropertyArgPrimary

: 

namedArgLabel

options { baseContext = mapEntryLabel; }

: keywords

| namedArgPrimary

: 

/**
 * t 0: general creation; 1: non-static inner class creation
 */

creator[int t]

: createdName

( nls arguments anonymousInnerClassDeclaration[0]?
  
dim+ (nls arrayInitializer)?

)

: 

dim

: annotationsOpt LBRACK expression? RBRACK

: 

arrayInitializer

: LBRACE nls (variableInitializers nls)? RBRACE

: 

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */

anonymousInnerClassDeclaration[int t]

: classBody[0]

: 

createdName

: annotationsOpt

( primitiveType
  

qualifiedClassName typeArgumentsOrDiamond?

)

: 

nonWildcardTypeArguments

: LT nls typeList nls GT

: 

typeArgumentsOrDiamond

: LT GT

| typeArguments
enhancedArgumentListElement
  : expressionListElement[true]
  | standardLambdaExpression
  | namedPropertyArg
  ;

stringLiteral
  : StringLiteral
  ;

className
  : CapitalizedIdentifier
  ;

identifier
  : Identifier
  | CapitalizedIdentifier
  | VAR
  | IN
  // | DEF
  | TRAIT
  | AS
  ;

builtInType
  : BuiltInPrimitiveType
  | VOID
  ;

keywords
  : ABSTRACT
  | AS
  | ASSERT
  | BREAK
  | CASE
  | CATCH
  | CLASS
  | CONST
  | CONTINUE
  | DEF
  | DEFAULT
  | DO
  | ELSE
  | ENUM
  | EXTENDS
  | FINAL
  | FINALLY
  | FOR
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*/

Found in path(s):
*/

* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/GroovyParser.g4

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/OperandStack.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/callsite/CallSiteGenerator.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/trait/NAryOperationRewriter.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/AnnotationCollectorMode.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/AnnotationCollectorMode.java
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jar/groovy/io/EncodingAwareBufferedWriter.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/util/ReferenceManager.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/expr/ListExpression.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/messages/WarningMessage.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/reflection/stdclasses/FloatCachedClass.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/PackageScope.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/sc/StaticCompileTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/CompilerConfiguration.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/expr/ClassExpression.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/GroovyResourceLoader.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/EncodingGroovyMethodsSupport.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/stmt/ContinueStatement.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/MetaDataHandler.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/wrappers/PojoWrapper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassSite.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/stmt/ContinueStatement.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/messages/LocatedMessage.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/DelegatesTo.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/OnMethod.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/MethodPointerExpressionWriter.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/MemoizedASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/GroovySourceAST.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/util/NodePrinter.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/parser/antlr4/SyntaxErrorReportable.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/ConvertedClosure.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/GroovyCategorySupport.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/AdaptingMetaClass.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/tools/BeanUtils.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/expr/EmptyExpression.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/ScriptBytecodeAdapter.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/vmplugin/v7/IndyGuardsFiltersAndSignatures.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/tailrec/TernaryToIfStatementConverter.groovy
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/io/ReaderSource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/CompilationUnit.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/LabelVerifier.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/util/ManagedConcurrentMap.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy/transform/stc/ClosureSignatureHint.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/sc/transformers/RangeExpressionTransformer.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/ClassNode.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/trait/SuperCallTraitTransformer.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/options/PropertyHandler.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/MapWithDefault.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/apache/groovy/lang/annotation/Incubating.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlR/UnicodeLexerSharedInputState.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/util/ObservableSet.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/stc/PropertyLookupVisitor.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/stc/SharedVariableCollector.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/stc/DelegationMetadata.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/GroovyASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/parser/antlr4/util/PositionConfigureUtils.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/Mixin.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/IllegalPropertyAccessException.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/ReadWriteLockASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/Field.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/MetaMethod.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/ReadWriteLockASTTransformation.java

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/callsite/DummyCallSite.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/customizers/builder/CustomizersFactory.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/Tuple5.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/NumberRange.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/Internal.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/reflection/CachedClass.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/tailrec/VariableExpressionTransformer.groovy
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/ImmutableOptions.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/builder/ExternalStrategy.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/GroovyInterceptable.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/classgen/EnumCompletionVisitor.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/lang/EmptyRange.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/trait/TraitComposer.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/trait/SignatureCodecVersion1.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/ImmutableASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/ImmutableASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/SynchronizedASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/runtime/callsite/NullCallSite.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/runtime/callsite/GetEffectivePojoPropertyDescriptor.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/runtime/m12n/SimpleExtensionModule.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/runtime/callsite/GeneratedClosure.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/ImmutableASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/trait/TraitComposer.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/builder/ExternalStrategy.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/GroovyException.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/plugin/GroovyRunner.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/RangelInfo.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/NamedVariant.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/callsite/MetaMethodSite.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/BytecodeHelper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/indy/IndyCallSiteWriter.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/tools/shell/IO.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/tools/shell/Preferences.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/tools/ClosureUtils.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/ast/tools/ImmutablePropertyUtils.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/customizers/builder/PostCompletionFactory.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/lang/SpreadMap.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/LexerAtnManager.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/ClassCompletionVerifier.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/IndyBinHelper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/ANTLRParserPlugin.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/tools/ParameterUtils.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/m12n/PropertiesModuleFactory.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/wrappers/FloatWrapper.java
jar/groovy/lang/ReadOnlyPropertyException.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/ast/expr/ArgumentListExpression.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/runtime/MethodClosure.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/ast/decompiled/Annotations.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/runtime/UnaryMinusExpression.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/lang/GString.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/vmplugin/v8/TypeHelper.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/runtime/callsite/PogoGetPropertySite.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/util/GroovyScriptEngine.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/classgen/asm/WriterControllerFactory.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/vmplugin/v7/IndyMath.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/ast/stmt/WhileStatement.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/codehaus/groovy/tools/javac/MemJavaFileObject.java

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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/groovy.g
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/java.g

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/** JSR-241 Groovy Recognizer.
 *
* Run 'java Main [-showtree] directory-full-of-groovy-files'
 *
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
 *
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 *
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
  fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
  added tree construction
  fixed definition of WS,comments for mac,pc,unix newlines
  added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class defns as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
  * Changed LITERAL_xxx to xxx in tree grammar.
  * Updated java.g to use tokens {...} now for 2.6.0 (new feature).

* Version 1.13 (Apr 23, 1999)
  * Didn't have (stat)? for else clause in tree parser.
  * Didn't gen ASTs for interface extends. Updated tree parser too.
  * Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
  * Allowed final/abstract on local classes.
  * Removed local interfaces from methods
  * Put instanceof precedence where it belongs...in relationalExpr
    * It also had expr not type as arg; fixed it.
  * Missing ! on SEMI in classBlock
  * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  * fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
  * Screwed up rule with instanceof in it. :( Fixed.
  * Tree parser didn't like (expr).something; fixed.
  * Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
  * Extending an interface built a wacky tree: had extra EXTENDS.
  * Tree grammar didn't allow multiple superinterfaces.
  * Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
  * ESC lexer rule allowed 399 max not 377 max.
  * java.tree.g didn't handle the expression of synchronized
    * statements.
* Version 1.18 (August 12, 2001)
  * Terence updated to Java 2 Version 1.3 by
    * observing/combining work of Allan Jacobs and Steve
    * Messick. Handles 1.3 src. Summary:
      * o primary didn't include boolean.class kind of thing
      * o constructor calls parsed explicitly now:
        * see explicitConstructorInvocation
      * o add strictfp modifier
      * o missing objBlock after new expression in tree grammar
      * o merged local class definition alternatives, moved after declaration
      * o fixed problem with ClassName.super.field
      * o reordered some alternatives to make things more efficient
      * o long and double constants were not differentiated from int/float
      * o whitespace rule was inefficient: matched only one char
      * o add an examples directory with some nasty 1.3 cases
* made Main.java use buffered IO and a Reader for Unicode support
* supports UNICODE?
* Using Unicode charVocabulary makes code file big, but only
* in the bitsets at the end. I need to make ANTLR generate
* unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
* Terence added in nice fixes by John Pybus concerning floating
* constants and problems with super() calls. John did a nice
* reorg of the primary/postfix expression stuff to read better
* and makes f.g.super() parse properly (it was METHOD_CALL not
* a SUPER_CTOR_CALL). Also:
* o "finally" clause was a root...made it a child of "try"
* o Added stuff for asserts too for Java 1.4, but *commented out*
* as it is not backward compatible.
*
* Version 1.20 (October 27, 2002)
*  Terence ended up reorging John Pybus' stuff to
*  remove some nondeterminisms and some syntactic predicates.
*  Note that the grammar is stricter now; e.g., this(...) must
*  be the first statement.
*  Trinary ?: operator wasn't working as array name:
*  (isBig ? bigDigits : digits)[i];
*  Checked parser/tree parser on source for
*  Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
*  and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
*  Fixed lots of problems including:
*  Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
*  He found a problem/fix with floating point that start with 0
*  Ray also fixed problem that (int.class) was not recognized.
*  Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
*  TJP fixed CHAR_LITERAL analogously.
*
*  Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
*  Notes:
*  o We only allow the "extends" keyword and not the "implements"
*    keyword, since that's what JSR14 seems to imply.
*  o Thanks to Monty Zukowski for his help on the antlr-interest
*    mail list.
*  o Thanks to Alan Eliasen for testing the grammar over his
*    Fink source base
*
* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
  * Notes:
  *  o Added support for annotations types
  *  o Finished off Matt Quail’s generics enhancements to support bound type arguments
  *  o Added support for new for statement syntax
  *  o Added support for static import syntax
  *  o Added support for enum types
  *  o Tested against JDK 1.5 source base and source base of jdigraph project
  *  o Thanks to Matt Quail for doing the hard part by doing most of the generics work
  *
* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
  *  o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
  *  o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
  *  o Enabled type parameters on constructors, annotations on enum constants and package definitions
  *  o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
  *
* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
  *  o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
  *  o Fixed bug where type parameter was not included in generic constructor’s branch of AST
  *
* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactorings
  *  o Fixed typeParameters omission in identPrimary and newStatement
  *  o Replaced GT reconcilliation code with simple semantic predicate
  *  o Adapted enum/assert keyword checking support from Michael Stahl’s java15 grammar
  *  o Refactored typeDefinition production and field productions to reduce duplication
  *
* Version 1.22.4 (October 21, 2004)
  * Small bux fixes
  *  o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
  *  o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
  *  o Fixed bug in array declarations identified by Geoff Roy
  *
* Version 1.22.4.g.1
  * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  * and have applied the groovy.diff from java.g (1.22) by John Rose back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
  *
* Version 1.22.4.g.2
* o mkempf, rkleeb, Dec 2007
* o fixed various rules so that they call the correct Create Method
* to make sure that the line information are correct
*
* Based on an original grammar released in the PUBLIC DOMAIN
*
*/

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3.0-7-sources-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
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/**
 * This file is adapted from the Antlr4 Java grammar which has the following license
 *
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 */

/**
 * The Groovy grammar is based on the official grammar for Java:
 * https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
 */
lexer grammar GroovyLexer;

options {

superClass = AbstractLexer;
}

@header {
import java.util.Deque;
import java.util.ArrayDeque;
import java.util.Map;
import java.util.HashMap;
import java.util.Set;
import java.util.HashSet;
import java.util.Collections;
import java.util.Arrays;
import java.util.stream.IntStream;
import java.util.logging.Logger;
import java.util.logging.Level;
import java.util.EmptyStackException;
import org.apache.groovy.util.Maps;
import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;
}

@members {
private static final Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());
private long tokenIndex     = 0;
private int  lastTokenType  = 0;
private int  invalidDigitCount = 0;

/**
 * Record the index and token type of the current token while emitting tokens.
 */
@Override
public void emit(Token token) {
    this.tokenIndex++;
    int tokenType = token.getType();
    if (Token.DEFAULT_CHANNEL == token.getChannel()) {
        this.lastTokenType = tokenType;
    }
    if (RollBackOne == tokenType) {
        this.rollbackOneChar();
    }
    super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY =
    IntStream.of(
        Identifier, CapitalizedIdentifier, NullLiteral, BooleanLiteral, THIS, RPAREN, RBRACK,
private boolean isRegexAllowed() {
    if (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) >= 0) {
        return false;
    }

    return true;
}

/**
 * just a hook, which will be overridden by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {
        return column;
    }

    @Override
    public int hashCode() {
        return 0;
    }
}
@Override
public boolean equals(Object obj) {
    if (!(obj instanceof Paren)) {
        return false;
    }

    Paren other = (Paren) obj;

    return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);
    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
}

private boolean isInsideParens() {
    Paren paren = parenStack.peek();
    // We just care about "(" and "[", inside which the new lines will be ignored.
    // Notice: the new lines between "{" and "}" can not be ignored.
    if (null == paren) {
        return false;
    }

    return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
    (....)) as parenthesis
            || "]".equals(paren.getText());
private void ignoreTokenInsideParens() {
    if (!this.isInsideParens()) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

private void ignoreMultiLineCommentConditionally() {
    if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.LEXER;
}

@Override
public int getErrorLine() {
    return getLine();
}

@Override
public int getErrorColumn() {
    return getCharPositionInLine() + 1;
}

@Override
public int popMode() {
    try {
        return super.popMode();
    } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or )
        if (LOGGER.isLoggable(Level.FINEST)) {
            LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
        }
    }

    return Integer.MIN_VALUE;
}

private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}
private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}

// 3.10.5 String Literals
StringLiteral
   : GStringQuotationMark DqStringCharacter* GStringQuotationMark
   | SqStringQuotationMark SqStringCharacter* SqStringQuotationMark
   | Slash { this.isRegexAllowed() && _input.LA(1) != "\"" }?
       SlashyStringCharacter+ Slash
   | TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark
   | TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark
   | DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter+ DollarSlashyGStringQuotationMarkEnd
   ;

// Groovy gstring
GStringBegin
   : GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
TdqGStringBegin
   : TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin), pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
SlashyGStringBegin
   : Slash { this.isRegexAllowed() && _input.LA(1) != "\"" }? SlashyStringCharacter* Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
DollarSlashyGStringBegin
   : DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;

mode DQ_GSTRING_MODE;
GStringEnd
   : GStringQuotationMark -> popMode
   ;
GStringPart
   : Dollar -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
GStringCharacter
 mode TDQ_GSTRING_MODE;
 TdqGStringEnd
   : TdqStringQuotationMark -> type(GStringEnd), popMode
   ;
 TdqGStringPart
   : Dollar -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
 TdqGStringCharacter
   : TdqStringCharacter -> more
   ;

 mode SLASHY_GSTRING_MODE;
 SlashyGStringEnd
   : Dollar? Slash -> type(GStringEnd), popMode
   ;
 SlashyGStringPart
   : Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
 SlashyGStringCharacter
   : SlashyStringCharacter -> more
   ;

 mode DOLLAR_SLASHY_GSTRING_MODE;
 DollarSlashyGStringEnd
   : DollarSlashyGStringQuotationMarkEnd -> type(GStringEnd), popMode
   ;
 DollarSlashyGStringPart
   : Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
 DollarSlashyGStringCharacter
   : DollarSlashyStringCharacter -> more
   ;

 mode GSTRING_TYPE_SELECTOR_MODE;
 GStringLBrace
   : '{' { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
   ;
 GStringIdentifier
   : IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
   ;

 mode GSTRING_PATH_MODE;
GStringPathPart
  : Dot IdentifierInGString
    ;
RollBackOne
  : . {
    // a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ('"' == readChar || '/' == readChar)) {
      setType(GStringEnd);
    } else {
      setChannel(HIDDEN);
    }
  } -> popMode

  ;

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment DqStringCharacter
  : ~["\n\r\$]
    | EscapeSequence
    ;

// character in the single quotation string. e.g. 'a'
fragment SqStringCharacter
  : ~[\n\r\']
    | EscapeSequence
    ;

// character in the triple double quotation string. e.g. """a"
fragment TdqStringCharacter
  : ~["$]
    | GStringQuotationMark { _input.LA(1) != "" || _input.LA(2) != "" || _input.LA(3) == "" && (_input.LA(4) != ""
      || _input.LA(5) != ")") }?
    | EscapeSequence
    ;

// character in the triple single quotation string. e.g. '''a'''
fragment TsqStringCharacter
  : ~[\$]
    | SqStringQuotationMark { _input.LA(1) != \" || _input.LA(2) != \" || _input.LA(3) == \" && (_input.LA(4) != \"
      \" || _input.LA(5) != \")") }?
    | EscapeSequence
    ;

// character in the slashy string. e.g. /a/

// a trick to handle GStrings followed by EOF properly
int readChar = _input.LA(-1);
if (EOF == _input.LA(1) && ('"' == readChar || '/' == readChar)) {
  setType(GStringEnd);
} else {
  setChannel(HIDDEN);
}
} -> popMode

;
fragment SlashyStringCharacter
  : SlashEscape
  | Dollar [ !isFollowedByJavaLetterInGString(_input) ]?
  | ~[/\u0000]
  ;

// character in the collar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
  : SlashEscape | DollarSlashEscape | DollarDollarEscape
  | Slash { _input.LA(1) != '$' }?
  | Dollar [ !isFollowedByJavaLetterInGString(_input) ]?
  | ~[/\u0000]
  ;

// Groovy keywords
AS   : 'as';
DEF  : 'def';
IN   : 'in';
TRAIT: 'trait';
THREADSAFE : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR  : 'var';

// 3.9 Keywords
BuiltInPrimitiveType
  : BOOLEAN
  | CHAR
  | BYTE
  | SHORT
  | INT
  | LONG
  | FLOAT
  | DOUBLE
  ;

ABSTRACT : 'abstract';
ASSERT    : 'assert';

fragment
BOOLEAN : 'boolean';

BREAK    : 'break';

fragment
BYTE     : 'byte';

CASE     : 'case';
// 3.10.1 Integer Literals

IntegerLiteral
  : ( DecimalIntegerLiteral
    | HexIntegerLiteral
    | OctalIntegerLiteral
    | BinaryIntegerLiteral
  ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?

  // !!! Error Alternative !!!
  | Zero ([0-9] { invalidDigitCount++; })+ { require(false, "Invalid octal number", -(invalidDigitCount + 1), true); }

fragment
Zero
  : '0'

fragment
DecimalIntegerLiteral
  : DecimalNumeral IntegerTypeSuffix?

fragment
HexIntegerLiteral
  : HexNumeral IntegerTypeSuffix?
OctalIntegerLiteral
  : OctalNumeral IntegerTypeSuffix?
  ;

fragment
BinaryIntegerLiteral
  : BinaryNumeral IntegerTypeSuffix?
  ;

fragment
IntegerTypeSuffix
  : [iIlIgG]
  ;

fragment
DecimalNumeral
  : Zero
  | NonZeroDigit (Digits? | Underscores Digits)
  ;

fragment
Digits
  : Digit (DigitOrUnderscore* Digit)?
  ;

fragment
Digit
  : Zero
  | NonZeroDigit
  ;

fragment
NonZeroDigit
  : [1-9]
  ;

fragment
DigitOrUnderscore
  : Digit
  | Underscore
  ;

fragment
Underscores
  : Underscore+
  ;

fragment
Underscore
    : '_'
    ;

fragment
HexNumeral
    : Zero [xX] HexDigits
    ;

fragment
HexDigits
    : HexDigit (HexDigitOrUnderscore* HexDigit)?
    ;

fragment
HexDigit
    : [0-9a-fA-F]
    ;

fragment
HexDigitOrUnderscore
    : HexDigit
    | Underscore
    ;

fragment
OctalNumeral
    : Zero Underscores? OctalDigits
    ;

fragment
OctalDigits
    : OctalDigit (OctalDigitOrUnderscore* OctalDigit)?
    ;

fragment
OctalDigit
    : [0-7]
    ;

fragment
OctalDigitOrUnderscore
    : OctalDigit
    | Underscore
    ;

fragment
BinaryNumeral
: Zero [bB] BinaryDigits

fragment
BinaryDigits
: BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?

fragment
BinaryDigit
: [01]

fragment
BinaryDigitOrUnderscore
: BinaryDigit
| Underscore

// 3.10.2 Floating-Point Literals

FloatingPointLiteral
: ( DecimalFloatingPointLiteral
| HexadecimalFloatingPointLiteral
) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?

fragment
DecimalFloatingPointLiteral
: Digits Dot Digits ExponentPart? FloatTypeSuffix?
| Digits ExponentPart FloatTypeSuffix?
| Digits FloatTypeSuffix

fragment
ExponentPart
: ExponentIndicator SignedInteger

fragment
ExponentIndicator
: [eE]

fragment
SignedInteger
: Sign? Digits
fragment
Sign
  : [+-]
  ;

fragment
FloatTypeSuffix
  : [fFdDgG]
  ;

fragment
HexadecimalFloatingPointLiteral
  : HexSignificand BinaryExponent FloatTypeSuffix?
  ;

fragment
HexSignificand
  : HexNumeral Dot?
  | Zero [xX] HexDigits? Dot HexDigits
  ;

fragment
BinaryExponent
  : BinaryExponentIndicator SignedInteger
  ;

fragment
BinaryExponentIndicator
  : [pP]
  ;

fragment
Dot
  : '.'
  ;

// 3.10.3 Boolean Literals

BooleanLiteral
  : 'true'
  | 'false'
  ;

// 3.10.6 Escape Sequences for Character and String Literals

fragment
EscapeSequence
: Backslash \n\r\t\f\b | OctalEscape | UnicodeEscape | DollarEscape | LineEscape

fragment
OctalEscape
: Backslash OctalDigit | Backslash OctalDigit OctalDigit | Backslash ZeroToThree OctalDigit OctalDigit

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
: Backslash 'u' HexDigit HexDigit HexDigit HexDigit

fragment
ZeroToThree
: [0-3]

// Groovy Escape Sequences

fragment
DollarEscape
: Backslash Dollar

fragment
LineEscape
: Backslash LineTerminator

fragment
LineTerminator
: \r? \n | \r

fragment
SlashEscape
: Backslash Slash
fragment Backslash  
  : '\';

fragment Slash  
  : '/';

fragment Dollar  
  : '$';

fragment GStringQuotationMark  
  : "";

fragment SqStringQuotationMark  
  : '\';

fragment TdqStringQuotationMark  
  : "";"";

fragment TsqStringQuotationMark  
  : "";"";"";

fragment DollarSlashyGStringQuotationMarkBegin  
  : '$';

fragment DollarSlashyGStringQuotationMarkEnd  
  : '/$';

fragment DollarSlashEscape  
  : '$/$'
// 3.10.7 The Null Literal
NullLiteral
  : 'null'

// Groovy Operators

RANGE_INCLUSIVE    : '..'
RANGE_EXCLUSIVE    : '..<'
SPREAD_DOT         : '*.'
SAFE_DOT           : '?.'
SAFE_CHAIN_DOT     : '??.'
ELVIS              : '??:'
METHOD_POINTER     : '.&'
METHOD_REFERENCE   : ':='. 
REGEX_FIND         : '=~'
REGEX_MATCH        : '==~'
POWER              : '***'
POWER_ASSIGN       : '**='
SPACESHIP          : '<=>'
IDENTICAL          : '==='
NOT_IDENTICAL      : '!=='
ARROW              : '<->'

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF    : '!instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?
NOT_IN            : '!in'   { isFollowedBy(_input, ' ', '\t', '\r', '\n', '{', '(' ) }?

// 3.11 Separators

LPAREN            : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN            : ')' { this.exitParen(); } -> popMode;
LBRACE            : '{' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACE            : '}' { this.exitParen(); } -> popMode;
LBRACK            : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK            : ']' { this.exitParen(); } -> popMode;
SEMI              : ';';
COMMA    : ',';
DOT      : Dot;

// 3.12 Operators

ASSIGN    : '=';
GT        : '>';  
LT        : '<';
NOT       : '!';
BITNOT    : '~';
QUESTION  : '?';
COLON     : ':';
EQUAL     : '==';
LE        : '<=';
GE        : '>=';
NOTEQUAL  : '!=';
AND       : '&&';
OR        : '||';
INC       : '++';
DEC       : '--';
ADD       : '+';
SUB       : '-';
MUL       : '*';
DIV       : Slash;
BITAND    : '&';
BITOR     : '|';
XOR       : '^';
MOD       : '%';

ADD_ASSIGN : '+=';
SUB_ASSIGN : '-=';
MUL_ASSIGN : '*=';
DIV_ASSIGN : '/=';
AND_ASSIGN : '&=';
OR_ASSIGN : '|=';
XOR_ASSIGN : '^=';
MOD_ASSIGN : '%=';
LSHIFT_ASSIGN : '<<=';
RSHIFT_ASSIGN : '>>=';
URSHIFT_ASSIGN : '>>>=';
ELVIS_ASSIGN : '?=';

// 3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier
    : JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
Identifier
  : JavaLetter JavaLetterOrDigit* 

fragment
IdentifierInGString
  : JavaLetterInGString JavaLetterOrDigitInGString* 

fragment
JavaLetter
  : [a-zA-Z$_] // these are the "java letters" below 0x7F
  | // covers all characters above 0x7F which are not a surrogate
  ~[\u0000-\u007F\uD800-\uDBFF]
  { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  | // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
  [\u0800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }? 
  ;

fragment
JavaLetterInGString
  : JavaLetter { _input.LA(-1) != '$' }?
  ;

fragment
JavaLetterOrDigit
  : [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F 
  | // covers all characters above 0x7F which are not a surrogate 
  ~[\u0000-\u007F\uD800-\uDBFF]
  { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  | // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF 
  [\u0800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }? 
  ;

fragment
JavaLetterOrDigitInGString
  : JavaLetterOrDigit { _input.LA(-1) != '$' }?
  ;

fragment
ShCommand
  : ~[\r\n\uFFFF]* 
  ;

//
// Additional symbols not defined in the lexical specification

//

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS  : ([ 	]+ | LineEscape+) -> skip
;

// Inside (...) and [...] but not {...}, ignore newlines.
NL  : LineTerminator { this.ignoreTokenInsideParens(); }
;

// Multiple-line comments (including groovydoc comments)
ML_COMMENT
  : '/
   */' ~
     { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
;

// Single-line comments
SL_COMMENT
  : '/' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
  : '#!' { require(0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); } ShCommand
    (LineTerminator '#!' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
  : .

;
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*/

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java
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 */

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java
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Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/io/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/expr/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/tools/javac/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/syntax/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/io/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/vmplugin/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/lang/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/tools/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/parse/package.html
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# limitations under the License.

# Format: one extension on each line without the leading "/.*"
# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.40/groovy-3-0-7-sources-jar/META-INF/groovy/org.codehaus.groovy.sourceforge.Extensions

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*/

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java

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

/** Java 1.5 Recognizer
 *
* Run 'java Main [-showtree] directory-full-of-java-files'
* [The -showtree option pops up a Swing frame that shows
*  the AST constructed from the parser.]
* 
* Run 'java Main <directory full of java files>'
*
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*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
* fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
* added tree construction
* fixed definition of WS,comments for mac,pc,unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class def s as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid...removed from modifiers

* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens {...} now for 2.6.0 (new feature).

* Version 1.13 (Apr 23, 1999)
* Didn't have (stat)? for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.

* Version 1.14 (Jun 20, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.

* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
* fixed: didn't like Object[].class in parser or tree parser

* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it: :( Fixed.
* Tree parser didn't like (expr).something: fixed.
* Allowed multiple inheritance in tree grammar. oops.

* Version 1.16 (August 22, 1999)
* Extending an interface built a wacky tree: had extra EXTENDS.
* Tree grammar didn't allow multiple superinterfaces.
* Tree grammar didn't allow empty var initializer: {}

* Version 1.17 (October 12, 1999)
* ESC lexer rule allowed 399 max not 377 max.
* java.tree.g didn't handle the expression of synchronized
  statements.

* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
  observing/combing work of Allan Jacobs and Steve
  Messick. Handles 1.3 src. Summary:
  o primary didn't include boolean.class kind of thing
  o constructor calls parsed explicitly now:
  see explicitConstructorInvocation
  o add strictfp modifier
  o missing objBlock after new expression in tree grammar
  o merged local class definition alternatives, moved after declaration
  o fixed problem with ClassName.super.field
  o reordered some alternatives to make things more efficient
  o long and double constants were not differentiated from int/float
  o whitespace rule was inefficient: matched only one char
  o add an examples directory with some nasty 1.3 cases
* made Main.java use buffered IO and a Reader for Unicode support
* supports UNICODE?
* Using Unicode charVocabulary makes code file big, but only
* in the bitsets at the end. I need to make ANTLR generate
* unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
* Terence added in nice fixes by John Pybus concerning floating
* constants and problems with super() calls. John did a nice
* reorg of the primary/postfix expression stuff to read better
* and makes f.g.super() parse properly (it was METHOD_CALL not
* a SUPERCTOR_CALL). Also:
* 
* "finally" clause was a root...made it a child of "try"
* Added stuff for asserts too for Java 1.4, but *commented out*
* as it is not backward compatible.
* 
* Version 1.20 (October 27, 2002)
* 
* Terence ended up reorging John Pybus' stuff to
* remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.
* 
* Ternary ?: operator wasn't working as array name:
* (isBig ? bigDigits : digits)[i];
* 
* Checked parser/tree parser on source for
* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
* and the 110k-line jGuru server source.
* 
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.
* 
* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
* We only allow the "extends" keyword and not the "implements"
* keyword, since that's what JSR14 seems to imply.
* Thanks to Monty Zukowski for his help on the antlr-interest
* mail list.
* Thanks to Alan Eliasen for testing the grammar over his
* Fink source base
*
* Version 1.22 (July, 2004)
* Changes by Michael Studman to support Java 1.5 language extensions
*  
* Notes:
*  
* o Added support for annotations types
*  
* o Finished off Matt Quail's generics enhancements to support bound type arguments
*  
* o Added support for new for statement syntax
*  
* o Added support for static import syntax
*  
* o Added support for enum types
*  
* o Tested against JDK 1.5 source base and source base of jdigraph project
*  
* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*  
* Version 1.22.1 (July 28, 2004)
* Bug/omission fixes for Java 1.5 language support
*  
* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
*  
* o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
*  
* o Enabled type parameters on constructors, annotations on enum constants
*  
* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*  
* Version 1.22.2 (July 28, 2004)
* Slight refactoring of Java 1.5 language support
*  
* o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
*  
* o Fixed bug where type parameter was not included in generic constructor's branch of AST
*  
* Version 1.22.3 (August 26, 2004)
* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
*  
* and other refactoring
*  
* o Fixed typeParameters omission in identPrimary and newStatement
*  
* o Replaced GT reconciliation code with simple semantic predicate
*  
* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
*  
* o Refactored typeDefinition production and field productions to reduce duplication
*  
* Version 1.22.4 (October 21, 2004)
* Small bux fixes
*  
* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*  
* o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
*  
* o Fixed bug in array declarations identified by Geoff Roy
*  
* Version 1.22.4.j.1
* Changes by Jeremy Rayner to support java2groovy tool
*  
* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*  
* and have made some changes to enable use by java2groovy tool (Jan 2007)
*  
* Based on an original grammar released in the PUBLIC DOMAIN
1.268 activemq-leveldb-store 5.15.14

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Found in path(s):
* /opt/cola/permits/1152388921_1618226856.39/0/spring-expression-3-2-3-release-sources-2-
  jar/org/springframework/expression/ExpressionParser.java
* /opt/cola/permits/1152388921_1618226856.39/0/spring-expression-3-2-3-release-sources-2-
  jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1152388921_1618226856.39/0/spring-expression-3-2-3-release-sources-2-
  jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1152388921_1618226856.39/0/spring-expression-3-2-3-release-sources-2-
  jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/cola/permits/1152388921_1618226856.39/0/spring-expression-3-2-3-release-sources-2-
  jar/org/springframework/expression/TypeLocator.java
1.271 activemq-jaas 5.16.2

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1.272 python-slip 0.4.0 4.el7

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```
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```
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```

<signature of Ty Coon>, 1 April 1989
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1.275 grub2 2.02-0.65.el7.centos.2

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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/dao/UncategorizedDataAccessException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/transaction/InvalidTimeoutException.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/transaction/NoTransactionException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/dao/UnacquireLockException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/dao/DataRetrievalFailureException.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/support/TransactionSuspensionNotSupportedIOException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/NestedTransactionNotSupportedIOException.java
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1.287 ethtool 4.8-10.el7

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* *
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*    --Sourcery
* *
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*    Pulled in the (an)other direction by Nick Ing-Simmons
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/*
* Shared variables are implemented by a scheme similar to tieing.
* Each thread has a proxy SV with attached magic -- "private SVs" --
* which all point to a single SV in a separate shared interpreter
* (PL_sharedsv_space) -- "shared SVs".
* *
* The shared SV holds the variable's true values, and its state is
* copied between the shared and private SVs with the usual
* mg_get()/mg_set() arrangement.
* *
* Aggregates (AVs and HVs) are implemented using tie magic, except that
* the table used is one defined in this file rather than the standard one.
* This means that where a tie function like FETCH is normally invoked by
* the tie magic's mg_get() function, we completely bypass the calling of a
* perl-level function, and directly call C-level code to handle it. On
* the other hand, calls to functions like PUSH are done directly by code
* in av.c, etc., which we can't bypass. So the best we can do is to provide
* XS versions of these functions. We also have to attach a tie object,
* blessed into the class threads::shared::tie, to keep the method-calling
* code happy.
* Access to aggregate elements is done the usual tied way by returning a
* proxy PVLV element with attached element magic.
*
* Pointers to the shared SV are squirrelled away in the mg->mg_ptr field
* of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
* object SVs. These pointers have to be hidden like this because they
* cross interpreter boundaries, and we don't want sv_clear() and friends
* following them.
*
* The three basic shared types look like the following:
*
* -----------
*
* Shared scalar (my $s : shared):
*
* SV = PVMG(0x7ba238) at 0x7387a8
* FLAGS = (PADMY,GMG,SMG)
* MAGIC = 0x824d88
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x810358                 <<<< pointer to the shared SV
*
* -----------
*
* Shared aggregate (my @a : shared; my %h : shared):
*
* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0                <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000                 <<<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358             ""  <<<< another pointer to the shared AV
* ARRAY = 0x0
*
* -----------
*
* Aggregate element (my @a : shared; $a[0])
*
* SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,RMG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 '' <<<< pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0 <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
* FLAGS = (OBJECT, IOK, pIK)
* IV = 8455064 <<<< pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t
* 
* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
* *
* Userland locks:
* *
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* *shared* SV, whose mg_ptr field points to a malloc'ed structure
* *containing the necessary mutexes and condition variables.*
* *
* Nomenclature:
* *
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#ifdef HAS_PPPORT_H
 # define NEED_sv_2pv_flags
 # define NEED_vnewSVpvf
 # define NEED_warner
 # define NEED_newSVpvn_flags
 # include "ppport.h"
 # include "shared.h"
#endif

#ifdefine USE_ITHREADS

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C /* UL = user lock */

/*
 * The shared things need an interpreter to live in ...
 */
PerlInterpreter *PL_sharedsv_space; /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
 * SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
 * while in the shared interpreter context don't languish */
#define SHARED_CONTEXT                                  
STMT_START {                                        
    PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));   
    ENTER;                                          
    SAVETMPS;                                       
} STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT                                  
STMT_START {                                        
    FREETMPS;                                       
    LEAVE;                                          
    PERL_SET_CONTEXT((aTHX = caller_perl));         
} STMT_END

/*
 * Only one thread at a time is allowed to mess with shared space.
 */

typedef struct {
    perl_mutex  mutex;
    PerlInterpreter  *owner;
    I32          locks;
    perl_cond    cond;
#ifdef DEBUG_LOCKS
    char         *file;
    int          line;
#endif
} recursive_lock_t;

recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */
void recursive_lock_init(pTHX_ recursive_lock_t *lock) {
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

void recursive_lock_destroy(pTHX_ recursive_lock_t *lock) {
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}

void recursive_lock_release(pTHX_ recursive_lock_t *lock) {
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, char *file, int line) {
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
            #ifdef DEBUG_LOCKS
                Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n",
                          aTHX, lock->owner, lock->file, lock->line);
            #endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
        lock->locks = 1;
        lock->owner = aTHX;
    #ifdef DEBUG_LOCKS
    }
lock->file = file;
lock->line = line;
#endif
}
MUTEX_UNLOCK(&lock->mutex);
SAVEDESTRUCTOR_X(recursive_lock_release,lock);
}

#define ENTER_LOCK
\STMT_START {\ENTER;
recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);
} STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT
\STMT_START {
ENTER_LOCK;
SHARED_CONTEXT;
} STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE
\STMT_START {
CALLER_CONTEXT;
LEAVE_LOCK;
} STMT_END

/* User-level locks:
This structure is attached (using ext magic) to any shared SV that
is used by user-level locking or condition code
*/

typedef struct {
recursive_lock_t   lock;   /* For user-levl locks */
perl_cond                      user_cond; /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs

The vtable used has just one entry - when the SV goes away
we free the memory for the above. */
int
sharedsv_userlock_free(pTHX_SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
    return (0);
}

MGVTBL sharedsv_userlock_vtbl = {
    0,                          /* get */
    0,                          /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_userlock_free,     /* free */
    0,                          /* copy */
    0,                          /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};

/* Support for dual-valued variables */
#ifdef SVf_IVisUV
    # define DUALVAR_FLAGS(sv)  
      ((SvPOK(sv))
          \?
          \? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK
          \?: ((SvIsUV(sv)) ? (SVf_IOK || SVf_IVisUV)
          \?: ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0)))
          \: 0)
#else
    # define DUALVAR_FLAGS(sv)  
      ((SvPOK(sv))
          \?
          \? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK
          \?: ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))
          \: 0)
#endif

/*
* Access to shared things is heavily based on MAGIC
* - in mg.h/mg.c/sv.c sense
*/

/* In any thread that has access to a shared thing there is a "proxy"
for it in its own space which has 'MAGIC' associated which accesses
the shared thing. */

extern MGVTBL sharedsv_scalar_vtbl; /* Scalars have this vtable */
extern MGVTBL sharedsv_array_vtbl;  /* Hashes and arrays have this
   - like 'tie' */
extern MGVTBL sharedsv_elem_vtbl;   /* Elements of hashes and arrays have
   this _AS WELL AS_ the scalar magic:
The sharedsv_elem_vtbl associates the element with the array/hash and
the sharedsv_scalar_vtbl associates it with the value
*/

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */
#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
* If create is true, create one if it doesn't exist */
STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
    * lock to access them ???? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
            (mg->mg_private == UL_MAGIC_SIG))
        {
            break;
        }
    }

    if (mg) {
ul = (user_lock*) (mg->mg_ptr);
} else if (create) {
dTHXc;
SHARED_CONTEXT;
ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
Zero(ul, 1, user_lock);
/* Attach to shared SV using ext magic */
mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
   (char *)ul, 0);
mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
recursive_lock_init(aTHX_ &ul->lock);
COND_INIT(&ul->user_cond);
CALLER_CONTEXT;
}
LEAVE_LOCK;
return (ul);
}

/* Given a private side SV tries to find if the SV has a shared backend,
* by looking for the magic.
*/

SV *
Perl_sharedsv_find(pTHX_ SV *sv)
{
    MAGIC *mg;
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
            case SVt_PVAV:
                case SVt_PVHV:
                    if (((mg = mg_find(sv, PERL_MAGIC_tied))
                        && mg->mg_virtual == &sharedsv_array_vtbl) {
                            return ((SV *)mg->mg_ptr);
                        }
                    break;
            default:
                /* This should work for elements as well as they
                * have scalar magic as well as their element magic
                */
            if (((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                && mg->mg_virtual == &sharedsv_scalar_vtbl) {
                return ((SV *)mg->mg_ptr);
            }
        break;
        }
        /* Just for tidyness of API also handle tie objects */
        if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
            return;
        }
    }
}
/* Associate a private SV with a shared SV by pointing the appropriate
* magics at it.
* Assumes lock is held.
*/

void
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharedsv_space);

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharedsv_lock.owner == aTHX);

    switch(SvTYPE(sv)) {
        case SVt_PVAV:
        case SVt_PVHV:
            if (!(mg = mg_find(sv, PERL_MAGIC_tied))
                || mg->mg_virtual != &sharedsv_array_vtbl
                || (SV*) mg->mg_ptr != ssv)
            {
                SV *obj = newSV(0);
                sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
                if (mg) {
                    sv_unmagic(sv, PERL_MAGIC_tied);
                }
                mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                                (char *)ssv, 0);
                mg->mg_flags |= (MGf_COPY|MGf_DUP);
                SvREFCNT_inc_void(ssv);
                SvREFCNT_dec(obj);
            }
            break;

        case SVt_PVHV:
            if (!((SvTYPE(sv) < SVt_PVMG))
                || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                || mg->mg_virtual != &sharedsv_array_vtbl
                || (SV*) mg->mg_ptr != ssv)
            {
                if (mg) {
                }
            }
            break;

        default:
            if ((SvTYPE(sv) < SVt_PVMG))
                || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                || mg->mg_virtual != &sharedsv_array_vtbl
                || (SV*) mg->mg_ptr != ssv)
            {
                if (mg) {
                }
            }
            break;
    }
}

/* Associate a private SV with a shared SV by pointing the appropriate
* magics at it.
* Assumes lock is held.
*/

void
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharedsv_space);

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharedsv_lock.owner == aTHX);

    switch(SvTYPE(sv)) {
        case SVt_PVAV:
        case SVt_PVHV:
            if (!(mg = mg_find(sv, PERL_MAGIC_tied))
                || mg->mg_virtual != &sharedsv_array_vtbl
                || (SV*) mg->mg_ptr != ssv)
            {
                SV *obj = newSV(0);
                sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
                if (mg) {
                    sv_unmagic(sv, PERL_MAGIC_tied);
                }
                mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                                (char *)ssv, 0);
                mg->mg_flags |= (MGf_COPY|MGf_DUP);
                SvREFCNT_inc_void(ssv);
                SvREFCNT_dec(obj);
            }
            break;

        default:
            if ((SvTYPE(sv) < SVt_PVMG))
                || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                || mg->mg_virtual != &sharedsv_array_vtbl
                || (SV*) mg->mg_ptr != ssv)
            {
                if (mg) {
                }
            }
            break;
    }
}
sv_unmagic(sv, PERL_MAGIC_shared_scalar);
}
mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,
&sharedsv_scalar_vtbl, (char *)ssv, 0);
mg->mg_flags |= (MGf_DUP
#ifdef MGf_LOCAL
 |MGf_LOCAL
#endif
);
SvREFCNT_inc_void(ssv);
break;
}
assert ( Perl_sharedsv_find(aTHX_ sv) == ssv );
}

/* Given a private SV, create and return an associated shared SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_shared(pTHX_ SV *sv)
{
 dTHXc;
 SV *ssv;

 assert(PL_sharedsv_lock.owner == aTHX);
 assert(aTHX != PL_sharedsv_space);

 SHARED_CONTEXT;
 ssv = newSV(0);
 SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */
 sv_upgrade(ssv, SvTYPE(sv));
 CALLER_CONTEXT;
 Perl_sharedsv_associate(aTHX_ sv, ssv);
 return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_private(pTHX_ SV *ssv)
{
 SV *sv;
assert(PL_sharedsv_lock.owner == aTHX);
assert(aTHX != PL_sharedsv_space);

sv = newSV(0);
sv_upgrade(sv, SvTYPE(ssv));
Perl_sharedsv_associate(aTHX_ sv, ssv);
return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
  if (! ssv)
    return;
  ENTER_LOCK;
  if (SvREFCNT(ssv) > 1) {
/* No side effects, so can do it lightweight */
    SvREFCNT_dec(ssv);
  } else {
    dTHXc;
    SHARED_CONTEXT;
    SvREFCNT_dec(ssv);
    CALLER_CONTEXT;
  }
  LEAVE_LOCK;
}

/* Implements Perl-level share() and :shared */

void
Perl_sharedsv_share(pTHX_ SV *sv)
{
  switch(SvTYPE(sv)) {
  case SVt_PVGV:
    Perl_croak(aTHX_ "Cannot share globs yet");
    break;
  case SVt_PVCV:
    Perl_croak(aTHX_ "Cannot share subs yet");
    break;
  default:
    ENTER_LOCK;
    (void) S_sharedsv_new_shared(aTHX_ sv);
LEAVE_LOCK;
SvSETMAGIC(sv);
break;
}
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds. (Adapted from Time::HiRes.) */
STATIC DWORD
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64  i64;   /* 'signed' to keep compilers happy */
    } now;

    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
    rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
    if (rel <= 0.0) {
        return (0);
    }
    return (DWORD)rel;
}
#else
# if defined(OS2)
    #define ABS2RELMILLI(abs)             
        do {                                
            abs -= (double)time(NULL);      
            if (abs > 0) { abs *= 1000; }   
            else         { abs  = 0;    }   
        } while (0)
# endif /* OS2 */
#undef ABS2RELMILLI
#endif /* WIN32 */

/* Do OS-specific condition timed wait */

bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
#if defined(NETWARE) || defined(FAKE_THREADS) || defined(I_MACH_CTHREADS)
    Perl_croak_nocontext("cond_timedwait not supported on this platform");
#else
    # ifdef WIN32
        int got_it = 0;
        cond->waiters++;
        MUTEX_UNLOCK(mut);
        /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
        switch (WaitForSingleObject(cond->sem, S_abs_2_re_milli(abs))) {
            case WAIT_OBJECT_0:   got_it = 1; break;
            case WAIT_TIMEOUT:                break;
            default:
                /* WAIT_FAILED? WAIT_ABANDONED? others? */
                Perl_croak_nocontext("panic: cond_timedwait (%ld)=%ld", GetLastError());
            break;
        }
        MUTEX_LOCK(mut);
        cond->waiters--;
        return (got_it);
    # else
        # ifdef OS2
            int rc, got_it = 0;
            STRLEN n_a;
            ABS2REL_MILLI(abs);
            if ((rc = DosResetEventSem(*cond,&n_a)) && (rc ! ERROR_ALREADY_RESET))
                Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
            MUTEX_UNLOCK(mut);
            if (CheckOSError(DosWaitEventSem(*cond,abs))
                && (rc ! ERROR_INTERRUPT))
                croak_with_os2error("panic: cond_timedwait");
            if (rc == ERROR_INTERRUPT) errno = EINTR;
            MUTEX_LOCK(mut);
            return (got_it);
        # else /* Hope you're I_PTHREAD! */
            struct timespec ts;
            int got_it = 0;
            ts.tv_sec = (long)abs;
            abs -= (NV)ts.tv_sec;
            ts.tv_nsec = (long)(abs * 1000000000.0);
            switch (pthread_cond_timedwait(cond, mut, &ts)) {
                case 0:         got_it = 1; break;
                case ETIMEDOUT:             break;
            }
        #endif
    #endif
#endif
#ifdef OEMVS
  case -1:
    if (errno == ETIMEDOUT || errno == EAGAIN)
      break;
#endif

default:
    Perl_croak_nocontext("panic: cond_timedwait");
    break;
}
return (got_it);
#endif /* OS2 */
#endif /* WIN32 */
#endif /* NETWARE || FAKE_THREADS || I_MACH_CTHREADS */

/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
  SV *obj;
  if (! (SvROK(sv) &&
        ((obj = SvRV(sv))) &&
        (Perl_sharedsv_find(aTHX_ obj == sobj) &&
         (SvTYPE(obj) == SvTYPE(sobj)))))
    {
      /* Can't reuse obj */
      if (SvROK(sv)) {
        SvREFCNT_dec(SvRV(sv));
      } else {
        assert(SvTYPE(sv) >= SVt_RV);
        sv_setsv_nomg(sv, &PL_sv_undef);
        SvROK_on(sv);
      }
      obj = S_sharedsv_new_private(aTHX_ sobj);
      SvRV_set(sv, obj);
    }

  if (SvOBJECT(obj)) {
    /* Remove any old blessing */
    SvREFCNT_dec(SvSTASH(obj));
    SvOBJECT_off(obj);
  }

  if (SvOBJECT(sobj)) {
    /* Add any new old blessing */
STRLEN len;
char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
SvOBJECT_on(obj);
SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
}
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj)                     
S_get_RV(aTHX_ sv, sobj);             
/\* Look ahead for refs of refs */       
if (SvROK(sobj)) {                     
SvROK_on(SvRV(sv));                  
S_get_RV(aTHX_ SvRV(sv), SvRV(sobj));
}

/* ------------ PERL_MAGIC_shared_scalar(n) functions -------------- */

/* Get magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_get(pTHX_ SV *sv, MAGIC *mg)
{
SV *ssv = (SV *) mg->mg_ptr;
assert(ssv);

ENTER_LOCK;
if (SvROK(ssv)) {
    get_RV(sv, SvRV(ssv));
} else {
    sv_setsv_nomg(sv, ssv);
}
LEAVE_LOCK;
return (0);
}

/* Copy the contents of a private SV to a shared SV.
* Used by various mg_set()-type functions.
* Assumes lock is held.
*/
void
sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
dTHXc;
bool allowed = TRUE;

assert(PL_sharedsv_lock.owner == aTHX);
if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
    SV *sv = sv_newmortal();
    sv_upgrade(sv, SVt_RV);
    get_RV(sv, SvRV(ssv));
}
if (SvROK(sv)) {
    SV *obj = SvRV(sv);
    SV *sobj = Perl_sharedsv_find(aTHX_, obj);
    if (sobj) {
        SHARED_CONTEXT;
        (void)SvUPGRADE(ssv, SVt_RV);
        sv_setsv_nomg(ssv, &PL_sv_undef);
        SvRV_set(ssv, SvREFCNT_inc(sobj));
        SvROK_on(ssv);
        if (SvOBJECT(sobj)) {
            /* Remove any old blessing */
            SvREFCNT_dec(SvSTASH(sobj));
            SvOBJECT_off(sobj);
        }
        if (SvOBJECT(obj)) {  
            SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
            SvOBJECT_on(sobj);
            SvSTASH_set(sobj, (HV*)fake_stash);
        }
        CALLERCONTEXT;
    } else {
        allowed = FALSE;
    }
} else {
    SvTEMP_off(sv);
    SHAREDCONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
    }
    CALLERCONTEXT;
}
Perl_croak(aTHX_ "Invalid value for shared scalar");
}
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

int sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
    if (SvTYPE(ssv) < SvTYPE(sv)) {
        dTHXc;
        SHARED_CONTEXT;
        sv_upgrade(ssv, SvTYPE(sv));
        CALLER_CONTEXT;
    }
    sharedsv_scalar_store(aTHX_ sv, ssv);
    LEAVE_LOCK;
    return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */

int sharedsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERLUNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty
        && SvROK((SV *)mg->mg_ptr) && SvREFCNT(SvRV((SV *)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

/*
* Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
*/

int sharedsv_scalar_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERLUNUSED_ARG(param);
SvREFCNT_inc_void(mg->mg_ptr);
return (0);
}

#ifdef MGf_LOCAL
/*
 * Called during local $shared
 */
int
sharedsv_scalar_mg_local(pTHX_ SV* nsv, MAGIC *mg)
{
    MAGIC *nmg;
    SV *ssv = (SV *) mg->mg_ptr;
    if (ssv) {
        ENTER_LOCK;
        SvREFCNT_inc_void(ssv);
        LEAVE_LOCK;
    }
    nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
                        mg->mg_ptr, mg->mg_len);
    nmg->mg_flags = mg->mg_flags;
    nmg->mg_private = mg->mg_private;

    return (0);
}
#endif

MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get,     /* get */
    sharedsv_scalar_mg_set,     /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_scalar_mg_free,    /* free */
    0,                          /* copy */
    sharedsv_scalar_mg_dup,     /* dup */
#if define MGf_LOCAL
    sharedsv_scalar_mg_local,   /* local */
#endif
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */

/* Get magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
}
SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
SV** svp = NULL;

ENTER_LOCK;
if (saggregate) { /* During global destruction, underlying aggregate may no longer exist */
if (SvTYPE(saggregate) == SVt_PVAV) {
    assert (mg->mg_ptr == 0);
    SHARED_CONTEXT;
    svp = av_fetch((AV*)saggregate, mg->mg_len, 0);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert (mg->mg_ptr != 0);
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV*)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV*)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    svp = hv_fetch((HV*)saggregate, key, len, 0);
}
CALLER_CONTEXT;
}
if (svp) {
    /* Exists in the array */
    if (SvROK(*svp)) {
        get_RV(sv, SvRV(*svp));
    } else {
        /* $ary->[elem] or $ary->{elem} is a scalar */
        Perl_sharedsv_associate(aTHX_ sv, *svp);
        sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}
LEAVE_LOCK;
return (0);

/* Set magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
dTHXc;
SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
SV **svp;
U32 dualvar_flags = DUALVAR_FLAGS(sv);

/* Theory - SV itself is magically shared - and we have ordered the
 magic such that by the time we get here it has been stored
to its shared counterpart
*/
ENTER_LOCK;
assert(saggregate);
if (SvTYPE(saggregate) == SVt_PVAV) {
    assert (mg->mg_ptr == 0);
    SHARED_CONTEXT;
    ssvp = av_fetch((AV*) saggregate, mg->mg_len, 1);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert (mg->mg_ptr != 0);
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    ssvp = hv_fetch((HV*) saggregate, key, len, 1);
}
CALLER_CONTEXT;
Perl_sharedsv_associate(aTHX_ sv, *svp);
sharedsv_scalar_store(aTHX_ sv, *svp);
SvFLAGS(*svp) |= dualvar_flags;
LEAVE_LOCK;
return (0);

/* Clear magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
/* Object may not exist during global destruction */
if (! saggregate) {
    return (0);
}

ENTER_LOCK;
sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar))
    sharedsv_scalar_mg_get(aTHX_ sv, shmg);
if (SvTYPE(saggregate) == SVt_PVAV) {
    SHARED_CONTEXT;
    av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert ( mg->mg_ptr != 0 );
    if (mg->mg_len == HEF_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
        SHARED_CONTEXT;
        (void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
    }
    CALLER_CONTEXT;
    LEAVE_LOCK;
    return (0);
}

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new * thread */

int
sharedsv_elem_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,  /* get */
    sharedsv_elem_mg_STORE,  /* set */
    0,                        /* len */
sharedsv_elem_mg_DELETE, /* clear */
0, /* free */
0, /* copy */
sharedsv_elem_mg_dup, /* dup */
#ifdef MGf_LOCAL
0, /* local */
#endif
};

/ * ----------- PERL_MAGIC_tied(P) functions ------------- */

/* Len magic for PERL_MAGIC_tied(P) */

U32
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{

dTHXc;
SV *ssv = (SV *) mg->mg_ptr;
U32 val;
PERL_UNUSED_ARG(sv);
SHARED_EDIT;
if (SvTYPE(ssv) == SVt_PVAV) {
    val = av_len((AV*) ssv);
} else {
    /* Not actually defined by tie API but ... */
    val = HvUSEDKEYS((HV*) ssv);
}
SHARED_RELEASE;
return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{

dTHXc;
SV *ssv = (SV *) mg->mg_ptr;
const bool isav = SvTYPE(ssv) == SVt_PVAV;
PERL_UNUSED_ARG(sv);
SHARED_EDIT;
if (!PL_dirty) {
    SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
    I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
    HE *iter;
    if (!isav) hv_iterinit((HV *)ssv);
    while (isav ? items-- : !(iter = hv_iternext((HV *)ssv))) {
        SV *sv = isav ? *svp++ : HeVAL(iter);
    }
}
if (!sv) continue;

if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
&& SvREFCNT(sv) == 1 ) {
  SV *tmp = Perl_sv_newmortal(caller_perl);
  PERL_SET_CONTEXT((aTHX = caller_perl));
  sv_upgrade(tmp, SVt_RV);
  get_RV(tmp, sv);
  PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
}

}
}
if (isav) av_clear((AV*) ssv);
else      hv_clear((HV*) ssv);

SHARED_RELEASE;
return (0);

/* Free magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
  PERL_UNUSED_ARG(sv);
  S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
  return (0);
}

/*
* Copy magic for PERL_MAGIC_tied(P)
* This is called when perl is about to access an element of
* the array -
*/
#if PERL_VERSION >= 11

int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
                       SV *nsv, const char *name, I32 namlen)
#else
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
                       SV *nsv, const char *name, int namlen)
#endif
{
  MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
               toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
               name, namlen);
  PERL_UNUSED_ARG(sv);
  nmg->mg_flags |= MGf_DUP;
  return (1);
int sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void((SV*)mg->mg_ptr);
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_array_vtbl = {
    0,                          /* get */
    0,                          /* set */
    sharedsv_array_mg_FETCHSIZE,/* len */
    sharedsv_array_mg_CLEAR,    /* clear */
    sharedsv_array_mg_free,     /* free */
    sharedsv_array_mg_copy,     /* copy */
    sharedsv_array_mg_dup,      /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};

/*/ Recursively unlocks a shared sv. */

void
Perl_sharedsv_unlock(pTHX_ SV *ssv)
{
    user_lock *ul = S_get_userlock(aTHX_ ssv, 0);
    assert(ul);
    recursive_lock_release(aTHX_ &ul->lock);
}

/*/ Recursive locks on a sharedsv.
* Locks are dynamically scoped at the level of the first lock.
*/

void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */
void Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
* True if not a shared,
* or if destroying last proxy on a shared object
*/
#ifdef PL_destroyhook
bool Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */
#ifdef PL_signalhook
STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void S_shared_signal_hook(pTHX) {
    int us;
    MUTEX_LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharedsv_lockmutex);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
}
#endif
if (us)
    return; /* try again later */
prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    /* This pair leaves us in shared context ... */
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX_ &PL_sharedsv_lock);
    PL_lockhook = &Perl_sharedsv_locksv;
    PL_sharehook = &Perl_sharedsv_share;
#ifdef PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
#endif
#ifdef PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
        PL_signalhook = &S_shared_signal_hook;
    }
#endif
}
#endif /* USE_ITHREADS */

MODULE = threads::shared PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#ifdef USE_ITHREADS

void
PUSH(SV *obj, ...)
CODE:
    dTHXc;
    SV *sobj = SHARED Sv_FROM_OBJ(obj);
    int ii;
    for (ii = 1; ii < items; ii++) {
        SV* tmp = newSVsv(ST(ii));
        SV *stmp;
U32 dualvar_flags = DUALVAR_FLAGS(tmp);
ENTER_LOCK;
stmp = S_sharedsv_new_shared(aTHX_tmp);
sharedsv_scalar_store(aTHX_tmp, stmp);
SvFLAGS(stmp) |= dualvar_flags;
SHARED_CONTEXT;
av_push((AV*) sobj, stmp);
SvREFCNT_inc_void(stmp);
SHARED_RELEASE;
SvREFCNT_dec(tmp);
}

void
UNSHIFT(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)sobj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
   SV *tmp = newSVsv(ST(ii));
   U32 dualvar_flags = DUALVAR_FLAGS(tmp);
   SV *stmp = S_sharedsv_new_shared(aTHX_tmp);
   sharedsv_scalar_store(aTHX_tmp, stmp);
   SHARED_CONTEXT;
   SvFLAGS(stmp) |= dualvar_flags;
   av_store((AV*) sobj, ii - 1, stmp);
   SvREFCNT_inc_void(stmp);
   CALLER_CONTEXT;
   SvREFCNT_dec(tmp);
}
LEAVE_LOCK;

void
POP(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_pop((AV*)sobj);
CALLER_CONTEXT;

---

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void
SHIFT(SV *obj)

CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SV* ssv;
   ENTER_LOCK;
   SHARED_CONTEXT;
   ssv = av_shift((AV*)sobj);
   CALLER_CONTEXT;
   ST(0) = sv_newmortal();
   Perl_sharedsv_associate(aTHX_ ST(0), ssv);
   SvREFCNT_dec(ssv);
   LEAVE_LOCK;
   /* XSRETURN(1); - implied */

void
EXTEND(SV *obj, IV count)

CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_extend((AV*)sobj, count);
   SHARED_RELEASE;

void
STORESIZE(SV *obj, IV count)

CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_fill((AV*) sobj, count);
   SHARED_RELEASE;

void
EXISTS(SV *obj, SV *index)

CODE:
   dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
bool exists;
if (SvTYPE(sobj) == SVt_PVAV) {
    SHARED_EDIT;
    exists = av_exists((AV*) sobj, SvIV(index));
} else {
    I32 len;
    STRLEN slen;
    char *key = SvPVutf8(index, slen);
    len = slen;
    if (SvUTF8(index)) {
        len = -len;
    }
    SHARED_EDIT;
    exists = hv_exists((HV*) sobj, key, len);
}
SHARED_RELEASE;
ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
/* XSRETURN(1); - implied */

void
FIRSTKEY(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;
ENTER_LOCK;
SHARED_CONTEXT;
hv_iterinit((HV*) sobj);
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
NEXTKEY(SV *obj, SV *oldkey)
CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;

PERL_UNUSED_VAR(oldkey);

ENTER_LOCK;
SHARED_CONTEXT;
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

MODULE = threads::shared      PACKAGE = threads::shared

PROTOTYPES: ENABLE

void
_id(SV *myref)

PROTOTYPE: \[%]
PREINIT:
    SV *ssv;
CODE:
    myref = SvRV(myref);
    if (SvMAGICAL(myref))
        mg_get(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        XSRETURN_UNDEF;
    ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
    /* XSRETURN(1); - implied */

void
void
share(SV *myref)
PROTOTYPE: \[$@\%
CODE:
if (!SvROK(myref))
    Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
Perl_sharedsv_share(aTHX_ myref);
ST(0) = sv_2mortal(newRV_inc(myref));
/* XSRETURN(1); - implied */

void
cond_wait($ *ref_cond, SV *ref_lock = 0)
PROTOTYPE: |$@%| |$@%|
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
if (!SvROK(ref_cond))
    Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_wait can only be used on shared values");
ul = S_get_userlock(aTHX_ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (!SvROK(ref_lock))
        Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_wait lock must be a shared value");
    ul = S_get_userlock(aTHX_ssv, 1);
}
if (ul->lock.owner != aTHX)
    croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other *
* people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: \[$@\%\]$;\[$@\%\]
PREINIT:
    SV *ssv;
perl_cond* user_condition;
int locks;
user_lock *ul;
CODE:
    if (!SvROK(ref_cond))
Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
  ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
  Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
  if (! SvROK(ref_lock))
    Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
  ref_lock = SvRV(ref_lock);
  if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
  ssv = Perl_sharedsv_find(aTHX_ ref_lock);
  if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
  ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
  Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
  /* OK -- must reacquire the lock... */
  COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
  XSRETURN_UNDEF;
OUTPUT:
  RETVAL

void
cond_signal(SV *myref)
  PROTOTYPE: \[$@%\]
PREINIT:
  SV *ssv;
  user_lock *ul;

CODE:
  if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
  myref = SvRV(myref);
  if (!SvROK(myref))
    myref = SvRV(myref);
  ssv = Perl_sharedsv_find(aTHX_ myref);
  if (! ssv)
    Perl_croak(aTHX_ "cond_signal can only be used on shared values");
  ul = S_get_userlock(aTHX_ ssv, 1);
  if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
      "cond_signal() called on unlocked variable");
  }
  COND_SIGNAL(&ul->user_cond);

void
cond_broadcast(SV *myref)
PROTOTYPE: |\$@%

PREINIT:
  SV *ssv;
  user_lock *ul;

CODE:
  if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
  myref = SvRV(myref);
  if (!SvROK(myref))
    myref = SvRV(myref);
  ssv = Perl_sharedsv_find(aTHX_ myref);
  if (! ssv)
    Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
  ul = S_get_userlock(aTHX_ ssv, 1);
  if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
      "cond_broadcast() called on unlocked variable");
  }
  COND_BROADCAST(&ul->user_cond);

void
bless(SV* myref, ...)
PROTOTYPE: $;$

PREINIT:
  HV* stash;
SV *ssv;

CODE:
if (items == 1) {
   stash = CopSTASH(PL_curcop);
} else {
   SV* classname = ST(1);
   STREND len;
   char *ptr;

   if (classname &&
       ! SvGMAGICAL(classname) &&
       ! SvAMAGIC(classname) &&
       SvROK(classname))
   {
      Perl_croak(aTHX_ "Attempt to bless into a reference");
   }
   ptr = SvPV(classname, len);
   if (ckWARN(WARN_MISC) && len == 0) {
      Perl_warner(aTHX_ packWARN(WARN_MISC),
                  "Explicit blessing to " (assuming package main"));
   }
   stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (ssv) {
   dTHXc;
   ENTER_LOCK;
   SHARED_CONTEXT;
   {
      SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
      (void)sv_bless(ssv, (HV*)fake_stash);
   }
   CALLER_CONTEXT;
   LEAVE_LOCK;
}
/* XSRETURN(1); - implied */
#endif /* USE_ITHREADS */

BOOT:
{
   #ifdef USE_ITHREADS
      Perl_sharedsv_init(aTHX);
   #endif /* USE_ITHREADS */
}
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>''
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Scalar::Util: 0
  Test: 0
  Test::More: 0
  XSLoader: 0
  strict: 0
  threads: 1.73
  warnings: 0
  version: 1.43
=pod
=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY
This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus
Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported
Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4
=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

 perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

### EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```perl
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```perl
perl ppport.h --diff='diff -C 10'
```
This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```perl
perl ppport.h --copy=.new
```

To display portability information for the `C<newSVpvn>` function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `C<_nomg>` functions or

```perl
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of `F<ppport.h>` is causing failure during the compilation of this module, please check if newer versions of either this module or `C<Devel::PPPort>` are available on CPAN before sending a bug report.

If `F<ppport.h>` was generated using the latest version of `C<Devel::PPPort>` and is causing failure of this module, please file a bug report using the CPAN Request Tracker at `L<http://rt.cpan.org/>`.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.
=item 4.

A full log of the build that failed.

=back

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);
my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t\]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\.*';
my $cce = '*][/\]';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}); };
  if ($@) {
    die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+):(\[^\|]*):(\[^\|]*):(\w*)$/
  ? ($1 => 

($2 ? ( base => $2 ) : ()),
($3 ? ( todo => $3 ) : ()),
(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
)
: die "invalid spec: $_" } qw(
AvFILL|5.004050|p
AvFILL||
CLASS||n
CPERLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILESV|5.006000|p
CopFILE_set|5.006000|p
CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASHPV|5.006000|p
CopSTASH_eq|5.006000|p
CopSTASH_set|5.006000|p
CopSTASH|5.006000|p
CopyD|5.009002|p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|5.011000|p
DEFSV|5.004050|p
END_EXTERN_C|5.005000|p
ENTER||
ERRSV|5.004050|p
EXTEND||
EXTERN_C|5.005000|p
F0convert||n
FREETMPS||
GIMME_V|5.004000|n
GIMME||n
GROK_NUMERIC_RADIX|5.007002|p
G_ARRAY||
G_DISCARD||
G_EVAL||
G_METHOD|5.006000|p
G_NOARGS||
G_SCALAR||
G_VOID|5.004000|
GetVars
GvSVn[5.009003]p
GvSV
Gv_AMupdate
HEf_SVKEY[5.004000]p
HeHASH[5.004000]p
HeKEY[5.004000]p
HeKLEN[5.004000]p
HePV[5.004000]p
HeSVKEY_force[5.004000]p
HeSVKEY_set[5.004000]p
HeSVKEY[5.004000]p
HeUTF8[5.011000]p
HeVAL[5.004000]p
HvNAMELEN_get[5.009003]p
HvNAME_get[5.009003]p
HvNAME
INT2PTR[5.006000]p
IN_LOCALE_COMPILETIME[5.007002]p
IN_LOCALE_RUNTIME[5.007002]p
IN_LOCALE[5.007002]p
IN_PERL_COMPILETIME[5.008001]p
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]p
IS_NUMBER_INFINITY[5.007002]p
IS_NUMBER_IN_UV[5.007002]p
IS_NUMBER_NAN[5.007003]p
IS_NUMBER_NEG[5.007002]p
IS_NUMBER_NOT_INT[5.007002]p
IVSIZE[5.006000]p
IVTYPE[5.006000]p
IVdf[5.006000]p
LEAVE
LVRET
MARK
MULTICALL[5.011000]p
MY_CXT_CLONE[5.009002]p
MY_CXT_INIT[5.007003]p
MY_CXT[5.007003]p
MoveD[5.009002]p
Move
NOOP[5.005000]p
NUM2PTR[5.006000]p
NVTYPE[5.006000]p
NVef[5.006001]p
NVrf[5.006001]p
NVgf[5.006001]p
Newxc[5.009003]p
Newxz[5.009003]p
Newx[5.009003]|p
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
ORIGMARK||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_DUP|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SV|||
PAD_SV|||
PERLIO_FUNCS_CAST[5.009003]|p
PERLIO_FUNCS_DECL[5.009003]|p
PERL_ABS[5.008001]|p
PERL_BCDVERSION[5.011000]|p
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]|p
PERL_HASH[5.004000]|p
PERL_INT_MAX[5.004000]|p
PERL_INT_MIN[5.004000]|p
PERL_LONG_MAX[5.004000]|p
PERL_LONG_MIN[5.004000]|p
PERL_MAGIC_arylen[5.007002]|p
PERL_MAGIC_backref[5.007002]|p
PERL_MAGIC_bmi[5.007002]|p
PERL_MAGIC_collxfrm[5.007002]|p
PERL_MAGIC_dbfile[5.007002]|p
PERL_MAGIC_dbline[5.007002]|p
PERL_MAGIC_defelem[5.007002]|p
PERL_MAGIC_envelem[5.007002]|p
PERL_MAGIC_env[5.007002]|p
PERL_MAGIC_ext[5.007002]|p
PERL_MAGIC_fm[5.007002]|p
PERL_MAGIC_glob[5.011000]|p
PERL_MAGIC_isaelem[5.007002]|p
PERL_MAGIC_isa[5.007002]|p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT||
PERL_SYS_TERM|5.011000|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL ULONG_MAX|5.004000||p
PERL ULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBrace||pn
PL_Sv|5.005000||p
PL_bufend|5.011000||p
PL_bufptr|5.011000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn||pn
PL_ergv|5.004050||p
PL_error_count|5.011000||p
PL_expect|5.011000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.011000||p
PL_in_my|5.011000||p
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.011000||p
PL_lex_stuff|5.011000||p
PL_linstr|5.011000|p
PL_modglobal|5.005000|n
PL_na|5.004050|pn
PL_no_modify|5.006000|p
PL_ofsgv|n
PL_parser|5.009005|p
PL_perl_destruct_level|5.004050|p
PL_perldb|5.004050|p
PL_ppaddr|5.004050|p
PL_rsfp_filters|5.004050|p
PL_rsfp|5.004050|p
PL_rs|n
PL_signals|5.008001|p
PL_stack_base|5.004050|p
PL_stack_sp|5.004050|p
PL_statcache|5.005000|p
PL_stdingv|5.004050|p
PL_sv_arenaroot|5.004050|p
PL_sv_no|5.004050|pn
PL_sv_undef|5.004050|pn
PL_sv_yes|5.004050|pn
PL_tainted|5.004050|p
PL_tainting|5.004050|p
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yylex
yyparse
yywarn);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), "", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api {
    my $code = shift;
    $code =~ s{
        / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[^
]*
        | \[\[^"\]\]*\[^"\]\]*)* \
        | \[\[^'\]\]*\[^'\]\]*)* \} \} gexs;
    grep { exists $API{$_} } $code =~ /\w+/, $code =~ /\w+/mg;
}
while (<DATA>) {
    if (Shint) {
        my $h = Shint->[0] eq 'Hint' ? \%hints : \%warnings;
        if (m{^\s*\#s*\$s+(.*?)/\$s*$/}) {
            for (@{Shint->[1]}) {
                $h->{$_} ||= "\n";  # suppress warning with older perls
            }
        }
        else { undef Shint }
    }
    $hint = [$1, [split /,?s+/, $2]]
    if (m{^\s*$rccs\s+(Hint|Warning):\s+\$(w+)(?:s+\w+\w+)+s*$/}) {
        if ($define) {
            if ($define->[1] =~ /\$/) {
                $define->[1] .= $_;
            }
            else {
                if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
                    my @n = find_api($define->[1]);
                    push @{$depends{$define->[0]}}, @n if @n
                }
                undef $define;
            }
        }
        $define = [$1, $2] if m{^\s*#s*\$s+\$(\w+)(?!([^\$])*)?s+\w+\$s*$/};

        if ($function) {
            if (/^}$/) {
                if (exists $API{$function->[0]}) {
                    my @n = find_api($function->[1]);
                    push @{$depends{$function->[0]}}, @n if @n
                }
                undef $function;
            }
            else {
                $function->[1] .= $_;
            }
        }
        $function = [$1, ""] if m{^DPPP_\$(my\_\$(w+))}$/;

        $replace     = $1 if m{^\s*\$s+Replace:\$s+(d+)?s+\$rccs\$s*$/};
        $replace{2} = $1 if $replace and m{^\s*\#s*\$s+\$(\w+)(?!([^\$])*)?s+\(w+\))/\$s*$/};
        $replace{2} = $1 if m{^\s*\#s*\$s+\$(\w+)(?!([^\$])*)?s+\(w+\))/\$s*$/};
    }
}

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$replace{$1} = $2 if m{^\s*$rcce\s+Replace \(w+\) with \(w+\)\s+$rcce\s*$};

if (m{^\s*$rcce\s+\(w+\(\s+\s+\w+\)s+\)\s+\(w+\(\s+\s+\w+\)\)\s+\(w+\(\s+\s+\w+\)\)\s+\$rcce\s*$}) {
    my @deps = map { s/s+//g; $_ } split //, $3;
    my $d;
    for $d (map { s/s+//g; $_ } split //, $1) {
        push @ { $depends{ $d } }, @deps;
    }
}

$need{$1} = 1 if m{^#if \s+defined\(NEED_\(w+\)?(.\_GLOBAL)?\)\};
}

for (values %depends) {
    my %s;
    $s_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "=== $f ===

    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
        my $base = format_version($API{$f}{base} || $API{$f}{todo});
        print "Supported at least starting from perl-$base\n";
        $info++;
    }
    if ($API{$f}{provided}) {
        my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
        print "Support by $ppport provided back to perl-$todo\n";
        print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
        print "Depends on: ", join(" , ", @{$depends{$f}} ), "\n" if exists $depends{$f};
        print "\nShints{$f}" if exists $Shints{$f};
        print "\nWARNING:\n$sarnings{$f}" if exists $warnings{$f};
        $info++;
    }
    print "No portability information available\n" unless $info;
    $count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '[ '.join(',', @flags).'] : "';
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn ""$_" is not a file.\n" ;
        }
        else {
            my @new = grep { -f } glob $_
                or warn ""$_" does not exist.\n" ;
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
} else {
    require File::Find;
    File::Find::find(sub { $File::Find::name =~ /($srcext)s/i
        and push @files, $File::Find::name;
    }, ' ');;
}
if ($@) {
    @files = map { glob ""*$_" } @srcext;
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;

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my $func;

for ($func (keys %API)) {
    my $match = $func;
    $match .= "|\Q$revreplace{$func}\E\b" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?\Q$match\E\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}{$func}++; my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{'$_'} = 0 unless exists $file{uses}{'$_'};
                    }
                }
                for ($func, @deps) {
                    $file{needs}{'$_'} = 'static' if exists $need{'$_'};
                }
            } else { warning("Possibly wrong #define $1 in $filename") }
        }
    }
}

while ($c =~ /\bdefine\b/m) {
    if (exists $need{$_}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for ($func (keys %{$file{$_}})) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$file{$has_inc_ppport} = $c =~ /\b\Q$HS*\S\S*\include\r\n\b\Q$ppport\b/m;

while ($c =~ /\bdefine\b/m) {
    if (exists $need{$_}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    }
    else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for ($func (keys %{$file{$_}})) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$file{$has_inc_ppport} = $c =~ /\b\Q$HS*\S\S*\include\r\n\b\Q$ppport\b/m;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {

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warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/b$func/b$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    } else {
      diag("Uses $func");
    }
  }
  $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

$warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
    format_version($API{$func}{todo}), ", even with '$ppport\n';
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  } if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func$b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_$func_GLOBAL if $func is never used";
  } elsif ($file{needs}{$func} eq 'extern') {
    $message = "No need to define NEED_$func_GLOBAL when already needed globally";
  } elsif ($file{needs}{$func} eq 'static') {
$message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}
}
if ($message) {
  diag($message);
  $file{changes} += ($c =~ s/$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ";

  for $func (sort keys %{$file{needs}})) {
    my $type = $file{needs}[$func];
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{needed_${type}}{$func}) {
      if ($type eq 'global') {
        diag("Files @ {$global{needs}{$func}} need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = ";
    $file{changes}++;  
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '${ppport}'");
    $pp .= qq(#include "$ppport\n")
  }

  if ($pp) {
    $file{changes} += ($c =~ s/(\$HS*\$HS*define\$HS+NEED_\w+.*)/$1$pp/ms)
   || ($c =~ s/(\$HS*\$HS*include.*Q$ppport(E)/S$pp/m)
   || ($c =~ s/(\$HS*\$HS*include.*XSUB.*\s*?)/$1$pp/m)
   || ($c =~ s/$/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
diag("No need to include 'Sppport'");
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*$Q$ppport\E.*?$LF//m);
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rc$ix$rcce/$cc$ccom[$ix] $ce/;
    } else {
        $c =~ s/$rc$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ':
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ':
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
unless ($patch_opened) {
    if (open PATCH, ">$opt{patch}") {
        $patch_opened = 1;
    } else {
        error("Cannot open '$opt{patch}' for writing: $!");
        delete $opt{patch};
        $opt{changes} = 1;
        goto fallback;
    }
    mydiff(*PATCH, $filename, Sc);
} else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, Sc);
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
} else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    } else if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    }
$diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    }
    unlink $tmp;

}
sub rec_depend
{
    my($func, $seen) = @_;    
    return () unless exists $depends{$func};
    $seen = { @{$seen||{ }};
    return () if $seen->{$func}++;    
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};    
}

sub parse_version
{
    my $ver = shift;
    if ($ver =~ /(^\d+\.(\d+\.(\d+)))/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver'
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /(^\d+)\.(\d{3})\.(\d{3})/;
    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'
        }
    }
    return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+/.(\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'";
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;
}

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info {
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag {
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning {
    $opt{quiet} and return;
    print "*** \n";
}

sub error {
    print "*** ERROR: \n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {

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die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
}
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$\^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \^[^\*]*\*+(?:[^$ccs]\[^\*]*\*+)* / | /\[^
\]*
}| ( '[^\]*\(?\:\[^\]*\[^\]*)*" |
| [^\]*\(?\:\[^\]*\[^\]*)*" )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c\n";
exit 0;
}

__DATA__
*

Found in path(s):
* /opt/cola/permits/1152389258_1618226150.91/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-
lYm7yrW/threads-shared-1.43.tar.gz-cosi-expand-archive-37YkKtfQ/threads-shared-1.43/ppport.h
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
Name: perl-threads-shared
Version: 1.43
Release: 6%{?dist}
Summary: Perl extension for sharing data structures between threads
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/threads-shared/
Source0: http://www.cpan.org/authors/id/J/JD/JDHEDDEN/threads-shared-%{version}.tar.gz
BuildRequires: perl
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(ExtUtils::testlib)
BuildRequires: perl(File::Path)
BuildRequires: perl(File::Spec)
BuildRequires: perl(POSIX)
BuildRequires: perl(Scalar::Util)
BuildRequires: perl(strict)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads) >= 1.73
BuildRequires: perl(warnings)
BuildRequires: perl(XSLLoader)
Requires: perl(:MODULE_COMPAT_%(eval "\"perl -V:version\"; echo $version))
Requires: perl(Carp)
Requires: perl(threads) >= 1.73
Requires: perl(XSLLoader)

%{?perl_default_filter}

%description
By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the threads module.

%prep
%setup -q -n threads-shared-%{version}

%build
perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="$RPM_OPT_FLAGS"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \\;
find $RPM_BUILD_ROOT -type f -name '*.bs' -size 0 -exec rm -f {} \\;
%{_fixperms} $RPM_BUILD_ROOT/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/threads*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.43-6
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.43-5
  - Mass rebuild 2013-12-27

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-4
  - Remove BR perl(3)

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-3
  - Specify all dependencies

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.43-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Jan 15 2013 Petr Pisar <ppisar@redhat.com> - 1.43-1
  - 1.43 bump

* Fri Nov 23 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.42-2
  - Add BR perl(File::Spec)
  - Replace PERL_INSTALL_ROOT with DESTDIR
  - Remove deleting empty directories
  - Remove defattr

* Wed Oct 03 2012 Petr Pisar <ppisar@redhat.com> - 1.42-1
  - 1.42 bump

* Mon Sep 10 2012 Petr Pisar <ppisar@redhat.com> - 1.41-1
  - 1.41 bump

* Mon Aug 13 2012 Marcela Malov <mmaslano@redhat.com> - 1.40-240
  - bump release to override sub-package from perl.spec

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-4
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.40-3
- Perl 5.16 rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Sep 12 2011 Petr Pisar <ppisar@redhat.com> - 1.40-1
- 1.40 bump

* Tue Sep 06 2011 Petr Pisar <ppisar@redhat.com> - 1.39-1
- 1.39 bump

* Wed Aug 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-3
- change path on vendor, so our debuginfo are not conflicting with perl core debuginfos

* Mon Jun 20 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-2
- Perl mass rebuild

* Tue Apr 26 2011 Petr Pisar <ppisar@redhat.com> - 1.37-1
- 1.37 bump

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.36-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Petr Pisar <ppisar@redhat.com> - 1.36-1
- 1.36 bump

* Mon Oct 11 2010 Petr Pisar <ppisar@redhat.com> - 1.34-1
- 1.34 bump

* Thu Sep 23 2010 Petr Pisar <ppisar@redhat.com> 1.33-1
- Specfile autogenerated by cpanspec 1.78.
- Fix dependencies
- Requires perl(Scalar::Util) is autodetected
- Do not provide private library
- Remove pre-F12 BuildRoot stuff

Found in path(s):
* /opt/cola/permits/1152389258_1618226150.91/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-liYm7yrW/perl-threads-shared.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads::shared - Perl extension for sharing data structures between threads
=head1 VERSION

This document describes threads::shared version 1.43

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({ 'foo' => [qw/foo bar baz/] });

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone( [ {}, [] ] );

{ lock(%hash); ... }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION
By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<:shared> attribute:

my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{"foo"} = 'bar';
$array[0] = 1.5;
# Storing shared refs
$var = \%hash;
$hash{'ary'} = \@array;
$array[1] = \$var;

# The following are errors:
#   $var = \$bork;                    # ref of non-shared variable
#   $hash{'bork'} = [];               # non-shared array ref
#   push(@array, [ 'x' => 1 ]);       # non-shared hash ref

=item shared_clone REF

C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});

Object status (i.e., the class an object is blessed into) is also cloned.

my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");         # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share([]);   # Same as $var = shared_clone({});

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

$threads::shared::clone_warn = 0;

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to
L<refaddr()|Scalar::Util/"refaddr EXPR">). Otherwise, returns C<undef>.

if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it’s available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);    # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}    # $var is now unlocked
As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

```perl
my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});       # Error
lock(%hash);               # Works
```

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using C<cond_wait> for synchronization, give up the lock as soon as possible).

The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is
returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like C<cond_wait>, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

  lock($var);
  my $abs = time() + 15;
  until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
  }
  # we got it if $ok, otherwise we timed out!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

  { no warnings 'threads'; cond_signal($foo); }

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

=back

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/”bless REF”> that works on shared objects such that I<blessings> propagate across threads.
# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    # bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
bless($obj, 'Yang');
$foo->{'bar'} = $obj;
})->join();

print(ref($foo),     "\n");   # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");   # Prints 'Yang'
print(ref($bar),     "\n");   # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };    
bless($foo, 'foo');

# Share the object
share($foo);    # Contents are now wiped out
print("ERROR: \$foo is empty\n")
    if (! exists($foo->{'data'}));

Therefore, populate such variables B<after> declaring them as shared. (Scalar
and scalar refs are not affected by this problem.)

It is often not wise to share an object unless the class itself has been
written to support sharing. For example, an object's destructor may get
called multiple times, once for each thread's scope exit. Another danger is
that the contents of hash-based objects will be lost due to the above
mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of
this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at
global destruction time. If the destructors must be called, make sure
there are no circular references and that nothing is referencing the
objects, before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing
array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not
autovivify the elements, and neither does slicing a shared array/hash over
non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and
C<< share($arrayref->[idx]) >> without giving any error message. But the
C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing
the error "lock can only be used on shared values" to occur when you attempt
to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another
thread.

Using L<refaddr()>|Scalar::Util/"refaddr EXPR"> is unreliable for testing
whether or not two shared references are equivalent (e.g., when testing for
circular references). Use L<is_shared()>/"is_shared VARIABLE">, instead:

    use threads;
    use threads::shared;
    use Scalar::Util qw(refaddr);
# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}

L<each()> does not work properly on shared references embedded in shared structures. For example:

my %foo :shared;
$foo{'bar'} = shared clone({ 'a'=>>'x', 'b'=>>'y', 'c'=>>'z' });

while (my ($key, $val) = each(%{$foo{'bar'}})) {
    ...
}

Either of the following will work instead:

my $ref = $foo{'bar'};
while (my ($key, $val) = each(%{$ref})) {
    ...
}

foreach my $key (keys(%{$foo{'bar'}})) {
    my $val = $foo{'bar'}{$key};
    ...
}

This module supports dual-valued variables created using L<dualvar()> from Scalar::Util::dualvar NUM, STRING>). However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc. to:
L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

L<threads::shared> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads-shared>

L<threads>, L<perlthrtut>
Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

=head1 AUTHOR

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Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=cut

Found in path(s):
* /opt/cola/permits/1152389258_1618226150.91/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-liYm7yrW/threads-shared-1.43.tar.gz-cosi-expand-archive-37YkKtfQ/threads-shared-1.43/lib/threads/shared.pm

1.290 requests-ntlm 1.1.0

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1.293 commons-beanutils 1.6

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1.294 activation-api 1.1

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Version 3, 29 June 2007

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1.298 tcconfig 3.7.0
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  jar/org/springframework/security/config/http/HttpConfigurationBuilder.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/web/configurers/LogoutConfigurer.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/ObjectPostProcessor.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfigurer.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/web/configuration/WebMvcSecurityConfiguration.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/web/configurers/SessionManagementConfigurer.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/web/builders/FilterComparator.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/web/configurers/ExceptionHandlingConfigurer.java
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  jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java
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* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
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* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
  jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorRegistrar.java
* /opt/cola/permits/1152321819_1618219241.97/0/spring-security-config-4-0-2-release-sources-3-
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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"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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This option is useful when you wish to copy part of the code of
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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val x: ((Int, Int) => Int) = (((a, b)) => a)
^  
val y: ((Int, Int) => Int) = (((a, !!)) => a)
^  
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^  
3 errors

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1.319 spring-framework 3.2.8.RELEASE

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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/enums/StaticLabeledEnumResolver.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/framework/util/PathMatcher.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/convert/support/FallbackObjectToStringConverter.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
jar/org/springframework/core/serializer/DefaultDeserializer.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
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jar/org/springframework/core/StandardMethodMetadata.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
jar/org/springframework/core/ParametrizedParameterNameDiscoverer.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
jar/org/springframework/core/ConcurrentThrottleSupport.java
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jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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The test programs in this directory tree are for demonstrating and
testing the functionality of the SDL library, and are placed in the
public domain.

October 28, 1997
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Sam Lantinga(slouken@libsdl.org)
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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
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This license, the Lesser General Public License, applies to some
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strategy to use in any particular case, based on the explanations below.

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

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

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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   You 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.327 jersey 1.19

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```java
Signature4L.java/util/List<Lorg/jvnet/licensetool/file/Block;>;
fileBlocksLjava/util/List;

Exceptions
postParse()Ljava/lang/String;blockContentb"Lorg/jvnet/licensetool/file/Block;i$Ljava/util/Iterator;
separatorgetComments()Ljava/util/List;blocksLocalVariableTypeTable;Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;
```
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Exceptions%
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*>
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/file/FileWrapper;isShellFile+(Lorg/jvnet/licensetool/file/FileWrapper;)ZstrLjava/lang/String;excLjava/io/IOException;
V/org/jvnet/licensetool/file/FileWrapper$OpenMode

VreadLine(Ljava/lang/String;java/lang/String

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SignatureLjava/lang/Object;Ljava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/reflect/Method;Lorg/jvnet/licensetool/argparser/ElementParser;>;SourceFileElementParser.javaEnclosingMethod'Lorg/jvnet/licensetool/argparser/ElementParserImpl

(java/lang/reflect/Method/org/jvnet/licensetool/argparser/ElementParser$1java/lang/Object+org/jvnet/licensetool/generic/UnaryFunction-org/jvnet/licensetool/argparser/ElementParser(Ljava/lang/reflect/Method;)V

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SignatureNLjava/util/Map<Ljava/lang/String;org/jvnet/licensetool/file/FileRecognizer;>;contentRecognizersLjava/util/List;=Ljava/util/List<Lorg/jvnet/licensetool/file/FileRecognizer;>;=init();VCodeLineNumberTableLocalVariableTablethisCompositeRecognizerInnerClasses=Lorg/jvnet/licensetool/RecognizerFactory$CompositeRecognizer;

getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;Lorg/jvnet/licensetool/file/FileParser;bpLorg/jvnet/licensetool/file/FileParser;r+Lorg/jvnet/licensetool/file/FileParser;i$Ljava/util/Iterator;file(Lorg/jvnet/licensetool/file/FileWrapper;

recognizer

addRecognizer.(Lorg/jvnet/licensetool/file/FileRecognizer;)V@(Ljava/lang/String;org/jvnet/licensetool/file/FileRecognizer;)V

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getSuffix()Ljava/lang/String;

java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Z

next()Ljava/lang/Object;

add(Ljava/lang/Object;)Z

put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;

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        includes="jersey/src/**/*.java jersey/test/**/*.java jersey/build.xml jersey/examples/**/*.java jersey/maven/**.xml *//*/pom*.xml">
    </licensetool>
</target>

<target name="fix-copyright" description="Fixes licence boilerplate at all source files">

</target>
SOURCEFILE ActionFactory.java

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1

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 */
package com.sun.jersey.impl.json;

import java.util.LinkedList;
import java.util.List;
import javax.xml.bind.annotation.XmlRootElement;

@XmlRootElement
public class Permission {
    public Integer id;
    public List<Permission> children;          // optional, holds the children permission of this one

    public static Permission getRootPermission() {

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            import javax.xml.bind.annotation.XmlRootElement;

            @XmlRootElement
            public class Permission {
                public Integer id;
                public List<Permission> children;          // optional, holds the children permission of this one

                public static Permission getRootPermission() {

                }

                }
Permission result = new Permission();
result.id = 7;
result.children = new LinkedList<Permission>();
result.children.add(getChildPermission());
return result;
}

public static Permission getChildPermission() {
    Permission result = new Permission();
    result.id = 8;
    result.children = new LinkedList<Permission>();
    result.children.add(get2ndLevelChildPermission());
    return result;
}

public static Permission get2ndLevelChildPermission() {
    Permission result = new Permission();
    result.id = 9;
    return result;
}

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

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    based on the Library, uncombined with any other library
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<div class="titlepage">
<div>
<div><h3 class="title" name="lgpl-2-9">
Section 9
</h3></div>
</div>
</div>
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<div class="titlepage">
<div>
<div><h3 class="title" name="lgpl-2-10">
Section 10
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<div class="titlepage">
<div>
<div><h3 class="title" name="lgpl-2-11">
Section 11
</h3></div>
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That's all there is to it!
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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</project>
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    <configuration>
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    </goals>
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</plugin>
</plugins>
</build>
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  </dependency>
  <dependency>
    <groupId>ant</groupId>
    <artifactId>ant</artifactId>
    <version>1.6.5</version>
  </dependency>
</dependencies>
</project>
ArgumentsInnerClassesvalidateZverboseCOPYRIGHTLjava/lang/String;
ConstantValue

START_YEARLOGGERLjava/util/logging/Logger;<init>()VCodeLineNumberTableLocalVariableTablethis#Lorg/jvnet/licensetool/LicenseTool;trace(Ljava/lang/String;)VmsggetSunCopyrightStart&(Ljava/lang/String;)Ljava/lang/String;strindexIposchCstartmakeCopyrightBlockb(Ljava/lang/String;Lorg/jvnet/licensetool/file/PlainBlock;)Lorg/jvnet/licensetool/file/PlainBlock;startYear
copyrightText'Lorg/jvnet/licensetool/file/PlainBlock;mapLjava/util/Map;
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null
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* holder.
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l/IteratorhasNext()Znext()Ljava/lang/Object;prefixappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;line_separator covertLineBreak8(Ljava/lang/String;Ljava/lang/String;)
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SourceFileElementParserImpl.java

EnclosingMethodUVW

Xjava/lang/ObjectYZ[+java/lang/reflect/InvocationTargetExceptionjava/lang/RuntimeExceptionjava/lang/StringBui

lder\]^_`&(String) constructor threw exception: ab_cd^ ejava/lang/Exception

Exception occurred in calling constructor

(String)java/lang/String)*4org/jvnet/licensetool/argparser/ElementParserImpl$13+org/jvnet/licensetool/generic/Una

ryFunction1org/jvnet/licensetool/argparser/ElementParserImplmakeClassConverter@(Ljava/lang/Class;)Lorg/jvnet/

licensetool/generic/UnaryFunction;()Vjava/lang/reflect/ConstructornewInstance'(Ljava/lang/Object;)Ljava/lang/Object;

bject;java/lang/ClassgetName()Ljava/lang/String;append-

(Ljava/lang/String;)Ljava/lang/StringBuilder;getTargetException()Ljava/lang/Throwable;-

(Ljava/lang/Object;)Ljava/lang/StringBuilder;toString(Ljava/lang/String;)V !">*+*,*-*#$%()*"i*Y+SMYY * _MYY

,*9#9+:/+.-%%(i/0A)1"=*+%%(23456789:'

1 evaluate8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;

Signature(TS;TT;)TR;P<:Ljava/lang/Object;T:Ljava/lang/Object;R:Ljava/lang/Object;>Ljava/lang/Object;

SourceFileBinaryFunction.java,org/jvnet/licensetool/generic/BinaryFunctionjava/lang/Object

1 evaluate(Ljava/lang/Object;)ZSignature(TT;)Z(<T:Ljava/lang/Object;>Ljava/lang/Object;

SourceFileUnaryBooleanFunction.java2org/jvnet/licensetool/generic/UnaryBooleanFunctionjava/lang/Object

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eNumberTableLocalVariableTablethisLog/jvnet/licensetool/LineCommentFile:parseBlocksM(Lorg/jvnet/licensetool/file/FileWrapper;LJava/lang/String;)Ljava/util/List;lineLjava/lang/String;i$Ljava/util/Iterator;fileAsLinesLjava/util/List;fw(Lorg/jvnet/licensetool/file/FileWrapper;prefixes[Ljava/lang/String;

startsWith((Ljava/lang/String;[Ljava/lang/String;)Zprefixarr$len$Istr

access$000()Ljava/util/logging/Logger;<clinit>
1.328 apache-mime4j-core 0.7.2
1.328.1 Available under license:

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1.331 ha-api 3.1.8

1.332 clang 3.4.2
1.332.1 Available under license :

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%S163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %S163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" { 
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:   vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" { 
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:   vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b

%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,

Open Source Used In OnPrem2.1 2.2 3787


define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
; CHECK-LABEL: pmaddwd_32_256:  
; CHECK:       # %bb.0:  
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0  
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0  
; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm1, %ymm1  
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq  
%A = load <32 x i16>, <32 x i16>* %APtr  
%B = load <32 x i16>, <32 x i16>* %BPtr  
%a = sext <32 x i16> %A to <32 x i32>  
%b = sext <32 x i16> %B to <32 x i32>  
%m = mul nsw <32 x i32> %a, %b  
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
%ret = add <16 x i32> %odd, %even  
store <16 x i32> %ret, <16 x i32>* %CPtr  
ret void  
}  

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: pmaddwd_32_512:  
; CHECK:       # %bb.0:  
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0  
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {

; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {

; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x

%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: _Z9test_charPcS_i_256:
 ; CHECK:       # %bb.0: # %entry
 ; CHECK-NEXT:    movl %edx, %eax
 ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT:    xorl %ecx, %ecx
 ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
 ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
 ; CHECK-NEXT:    .p2align 4, 0x90
 ; CHECK-NEXT:  .LBB8_1: # %vector.body
 ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
 ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
 ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
 ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
 ; CHECK-NEXT:    vpadd %ymm1, %ymm3, %ymm1
 ; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm3
 ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
 ; CHECK-NEXT:    vpadd %ymm2, %ymm3, %ymm2
 ; CHECK-NEXT:    .LBB8_2: # %middle.block
 ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
 ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
 ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
 ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
 ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
 ; CHECK-NEXT:    vpaddd %ymm0, %ymm0, %ymm0
 ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
 ; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
 ; CHECK-NEXT:    addq $32, %rcx
 ; CHECK-NEXT:    cmpq %rcx, %rax
 ; CHECK-NEXT:    jne .LBB8_1
 ; CHECK-NEXT:    vmovd %xmm0, %eax
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq

entry:
  %3 = zext i32 %2 to i64
  br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
; CHECK-LABEL: __Z9test_charPcS_i_512:
; CHECK: # %bb.0: # %entry
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1  
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf  
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15  
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17  
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19  
%13 = extractelement <32 x i32> %bin.rdx20, i32 0  
ret i32 %13  
}  

@a = global [1024 x i8] zeroinitializer, align 16  
@b = global [1024 x i8] zeroinitializer, align 16  

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {  
; CHECK-LABEL: sad_16i8_256:  
; CHECK: # %bb.0: # %entry  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00  
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2  
; CHECK-NEXT: .p2align 4, 0x90  
; CHECK-NEXT: .LBB10_1: # %vector.body  
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2  
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2  
; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1  
; CHECK-NEXT: .p2align 4, 0x90  
; CHECK-NEXT: .LBB10_1: # %vector.body  
; CHECK-NEXT: # %bb.2: # %middle.block
entry:
  br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:   movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:   .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB11_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    addq $4, %rax
    ; CHECK-NEXT:    jne .LBB11_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vmovd %xmm0, %eax
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    entry:
    br label %vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitialized, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1
1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtqd2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define <16 x i16> @test_16f32tof_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tof_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:   kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:   vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT:   vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" { 
  ; CHECK-LABEL: test_16f32tosb_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: vmovdqi16 %ymm0, %ymm0 [%k1] [z]
  ; CHECK-NEXT: retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { 
  ; CHECK-LABEL: mul256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: mul512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} %zmm2 =
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} %zmm3 =
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

; CHECK-NEXT:    vmovdqa %zmm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
; CHECK-NEXT:  vpunpcklbw {[*#+]}) zmm1 =
              zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],
              zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11], zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],
              zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[32],zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55],
; CHECK-NEXT:  vpunpcklbw {[*#+]}) zmm0 =
              zmm0[0],zmm0[1],zmm0[2],zmm0[3],zmm0[4],zmm0[5],zmm0[6],zmm0[7],zmm0[8],zmm0[9],zmm0[10],zmm0[11],
              zmm0[12],zmm0[13],zmm0[14],zmm0[15],zmm0[16],zmm0[17],zmm0[18],zmm0[19],zmm0[20],zmm0[21],zmm0[22],zmm0[23],zmm0[24],zmm0[25],zmm0[26],zmm0[27],zmm0[28],zmm0[29],zmm0[30],zmm0[31],zmm0[32],zmm0[33],zmm0[34],zmm0[35],zmm0[36],zmm0[37],zmm0[38],zmm0[39],zmm0[40],zmm0[41],zmm0[42],zmm0[43],zmm0[44],zmm0[45],zmm0[46],zmm0[47],zmm0[48],zmm0[49],zmm0[50],zmm0[51],zmm0[52],zmm0[53],zmm0[54],zmm0[55],
; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
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<td>&lt;none yet&gt;</td>
<td></td>
</tr>
</tbody>
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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX256-LABEL: 'zext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'zext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'

  ; VEC256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'sext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
define void @sext512() "min-legal-vector-width"="512" {  
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {  
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {  
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {  
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {  
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
The two loads based on %struct.0, loading two different data types cause LSR to assume type "void" for the memory type. This would then cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type [i8*, i8, %union.anon.0]
%union.anon.0 = type [i8*]
define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [
      i32 1, label %sw.bb.i17
      i32 2, label %sw.bb3.i20
    ]

  sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

  sw.bb3.i20: ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

  exit.2: ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body

  while.end: ; preds = %entry
    ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
 ; CHECK-LABEL: test_sitofp_fixed:
    
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
    
    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
    
    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
 ; CHECK-LABEL: test_sitofp_fixed_shortish:
    
    ; CHECK-DAG: scvtf.2d v0, v0
    ; CHECK-DAG: scvtf.2d v1, v1
    
    ; CHECK: ret
    %flt = sitofp <4 x i64> %in to <4 x double>
    %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
    ret <4 x double> %res
}

define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}
define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "ithumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
define void @foo_i8() {
  entry:
    %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
    %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
    %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
    %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
    %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
    store i8 %4, i8* inttoptr(i32 805873688 to i8*)
    store i8 %3, i8* inttoptr(i32 805873719 to i8*)
    store i8 %2, i8* inttoptr(i32 805873720 to i8*)
    store i8 %1, i8* inttoptr(i32 805873727 to i8*)
    store i8* inttoptr(i32 805874800 to i8*), i8** @goo
    ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?:]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?:]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?:]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?:]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?:]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?:]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

@goo = global i8* undef
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; : D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
}
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000000000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/InitCommand.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/FetchCommand.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4.2-R-201601211800-r-sources.jar/org/eclipse/jgit/api/RemoteAddCommand.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4.2-R-201601211800-r-sources.jar/org/eclipse/jgit/api/RemoteSetUrlCommand.java
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jar/org/eclipse/jgit/lib/RebaseTodoLine.java
*/opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/errors/IllegalTodoFileModification.java
*/opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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/**
 * A special exception thrown when [@link EolCanonicalizingInputStream] is
 * told to throw an exception when attempting to read a binary file. The
 * exception may be thrown at any stage during reading.
 *
 * @since 3.3
 */

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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- /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/StashDropCommand.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/lib/BitmapIndex.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/internal/storage/file/InflatingBitSet.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/transport/RequestNotYetReadException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/transport/AdvertiseRefsHookChain.java
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jar/org/eclipse/jgit/lib/BitmapIndex.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/PacketLineOut.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/WildCardMatcher.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/PathMatcher.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/WildMatcher.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/NameMatcher.java
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jar/org/eclipse/jgit/ignore/internal/Strings.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/AbstractMatcher.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/FastIgnoreRule.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/IMatcher.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
jar/org/eclipse/jgit/ignore/internal/TrailingAsteriskMatcher.java

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- /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/treewalk/EmptyTreeIterator.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/lib/ReflogReader.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/revwalk/filter/SkipRevFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/revwalk/filter/MaxCountRevFilter.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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*/opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/hooks/GitHook.java
*/opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/hooks/PrePushHook.java
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  jar/org/eclipse/jgit/api/RemoveNoteCommand.java
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  jar/org/eclipse/jgit/api/ShowNoteCommand.java
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  jar/org/eclipse/jgit/api/ListNotesCommand.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/internal/storage/pack/PackExt.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/revwalk/RevSort.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/internal/storage/file/CheckoutEntryImpl.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/lib/ObjectIdRef.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/DaemonService.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/diff/DiffConfig.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/diff/SimilarityIndex.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/lib/TreeFormatter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/diff/SimilarityRenameDetector.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/external/storage/dfs/PackInputStream.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/util/RawCharUtil.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/diff/SequenceComparator.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/diff/HashedSequenceComparator.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/external/storage/pack/DeltaEncoder.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/external/storage/file/UnpackedObjectCache.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/diff/ContentSource.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/util/io/UnionInputStream.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/util/io/TimeoutInputStream.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/fnmatch/CharacterHead.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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  jar/org/eclipse/jgit/dircache/DirCacheBuilder.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/revwalk/RevCommit.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/dircache/DirCacheEditor.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/util/TemporaryBuffer.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/dircache/DirCacheIterator.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/file/WindowCache.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/transport/PushProcess.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/transport/RemoteRefUpdate.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/internal/storage/file/PackReverseIndex.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/treewalk/filter/OrTreeFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/revwalk/filter/OrRevFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/treewalk/AndTreeFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/treewalk/PathFilterGroup.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/revwalk/filter/AndRevFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/revwalk/errors/NotSupportedException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/revwalk/errors/RevWalkException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/errors/SymlinksNotSupportedException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/errors/ObjectWritingException.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/PullResult.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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- /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/revplot/AbstractPlotRenderer.java

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* /opt/ cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/UserAgent.java
* /opt/ cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/NonceGenerator.java
* /opt/ cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/NonCacheNameConflictException.java
* /opt/ cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/InternalHttpServerGlue.java
* /opt/ cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/PushCertificateStore.java
* /opt/ cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/InternalPushConnection.java
```
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/gitrepo/RepoProject.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/WriteAbortedException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/lib/ObjectIdSet.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/ObjectCountCallback.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/ProgressSpinner.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/PushCertificate.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/HMACSHA1NonceGenerator.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/ProgressSpinner.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/PushCertificate.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources- jar/org/eclipse/jgit/internal/storage/file/GlobalAttributesNode.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/internal/storage/file/PackIndexWriterV1.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/FetchProcess.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/WalkFetchConnection.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/SideBandInputStream.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/SideBandOutputStream.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/BundleWriter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/BaseReceivePack.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/SideBandProgressMonitor.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/api/DeleteBranchCommand.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/api/RenameBranchCommand.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/lib/ConfigLine.java
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 */
/**
* Fetch objects we don't have but that are reachable from advertised refs.
* Only one call per connection is allowed. Subsequent calls will result in
* `{@link TransportException}`.
* </p>
* <p>
* Implementations are free to use network connections as necessary to
efficiently (for both client and server) transfer objects from the remote
repository into this repository. When possible implementations should
avoid replacing/overwriting/duplicating an object already available in
the local destination repository. Locally available objects and packs
should always be preferred over remotely available objects and packs.
* `{@link Transport#isFetchThin()}` should be honored if applicable.
* </p>
* 
* @param monitor
  progress monitor to inform the end-user about the amount of
  work completed, or to indicate cancellation. Implementations
  should poll the monitor at regular intervals to look for
  cancellation requests from the user.
* @param want
  one or more refs advertised by this connection that the caller
  wants to store locally.
* @param have
  additional objects known to exist in the destination
  repository, especially if they aren't yet reachable by the ref
database. Connections should take this set as an addition to
what is reachable through all Refs, not in replace of it.
* @throws TransportException
  objects could not be copied due to a network failure,
  protocol error, or error on remote side, or connection was
  already used for fetch.
*/

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jar/org/eclipse/jgit/revwalk/filter/RevFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/errors/NoRemoteRepositoryException.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/revplot/PlotLane.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/revwalk/TopoSortGenerator.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/transport/TransportAmazonS3.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/revwalk/RevObject.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/revwalk/filter/RevFlagFilter.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources.jar/org/eclipse/jgit/transport/transport/WalkEncryption.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/InvalidTagNameException.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/lib/RefUpdate.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/lib/ObjectChecker.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/blame/ReverseWalk.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/util/io/CountingOutputStream.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/dfs/DfsPackCompactor.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/pack/CachedPack.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/transport/PreUploadHook.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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  jar/org/eclipse/jgit/internal/storage/dfs/DfsRefRename.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/dfs/DfsPackKey.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/dfs/DeltaBaseCache.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/transport/UploadPackInternalServerErrorException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/dfs/DfsObjectToPack.java
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  jar/org/eclipse/jgit/internal/storage/pack/DfsReaderOptions.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/blame/BlameGenerator.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/blame/Candidate.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/dfs/DfsConfig.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/internal/storage/pack/BaseSearch.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/UnmergedPathsException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/NotMergedException.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/util/QuotedString.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/ReceiveCommand.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/PreReceiveHook.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/PostReceiveHook.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/PatchApplyException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/PatchFormatException.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
* jar/org/eclipse/jgit/api/errors/MultipleParentsNotAllowedException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
* jar/org/eclipse/jgit/api/RevertCommand.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
* jar/org/eclipse/jgit/api/CherryPickCommand.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/transport/RemoteSession.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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  jar/org/eclipse/jgit/merge/StrategySimpleTwoWayInCore.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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  jar/org/eclipse/jgit/transport/DaemonClient.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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*/opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/JGitInternalException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/CheckoutConflictException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/ConcurrentRefUpdateException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/NoHeadException.java
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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/InvalidMergeHeadsException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/errors/WrongRepositoryStateException.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/GitCommand.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/gitrepo/internal/RepoText.java

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* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/transport/BasePackConnection.java

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 jar/org/eclipse/jgit/api/CloneCommand.java
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  jar/org/eclipse/jgit/treewalk/filter/PathFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/treewalk/filter/NotTreeFilter.java
* /opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-
  jar/org/eclipse/jgit/dircache/BaseDirCacheEditor.java

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  */opt/cola/permits/1096651027_1601858953.62/0/org-eclipse-jgit-4-2-0-201601211800-r-sources-jar/org/eclipse/jgit/api/RebaseResult.java

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1.342 vim 7.4.629-7.0.1.el7

1.342.1 Available under license:

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

VIM REFERENCE MANUAL by Bram Moolenaar

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

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

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4) The contact information as required under 2)a) and 2)d) must not be
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If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
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IV) It is not allowed to remove this license from the distribution of the Vim
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Note:

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

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

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

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

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

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

==============================================================================
Kibaale Children's Centre*Kcc* *Kibaale* *charity*

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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


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

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

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

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Surface Mail:       Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:       (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

1.351 python-configobj 4.7.2-7.el7
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<tr class="field"><th class="docinfo-name">License:</th><td class="field-body"><a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></td>

Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhSEs8B/configobj-4.7.2/docs/validate.html

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

Validation Schema with validate.py
Introduction
============

Validation is used to check that supplied values conform to a specification.

The value can be supplied as a string, e.g. from a config file. In this case the check will also *convert* the value to the required type. This allows you to add validation as a transparent layer to access data stored as strings. The validation checks that the data is correct *and* converts it to the expected type.

Checks are also strings, and are easy to write. One generic system can be used to validate information from different sources via a single consistent mechanism.

Checks look like function calls, and map to function calls. They can include parameters and keyword arguments. These arguments are passed to the relevant function by the `Validator` instance, along with the value being checked.

The syntax for checks also allows for specifying a default value. This default value can be `None`, no matter what the type of the check. This can be used...
to indicate that a value was missing, and so holds no useful value.

Functions either return a new value, or raise an exception. See `Validator Exceptions`_ for the low down on the exception classes that ``validate.py`` defines.

Some standard functions are provided, for basic data types; these come built into every validator. Additional checks are easy to write: they can be provided when the ``Validator`` is instantiated, or added afterwards.

Validate was primarily written to support ConfigObj_, but is designed to be applicable to many other situations.

For support and bug reports please use the ConfigObj `Mailing List`_.

.. _ConfigObj: http://www.voidspace.org.uk/python/configobj.html

Downloading
============

The current version is **1.0.1**, dated 9th January 2010.

You can obtain validate in the following ways:

Files
-----

* validate.py_ from Voidspace

* configobj.zip from Voidspace - See the homepage of ConfigObj_ for the latest version and download links.

  This contains validate.py and `this document`_. (As well as ConfigObj_ and the ConfigObj documentation).

* The latest development version can be obtained from the `Subversion Repository`_.

Documentation
-------------

*configobj.zip* contains `this document`_.

* You can view `this document`_ online as the `Validate Homepage`_.

.. _configobj.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj.py
The standard functions

The standard functions come built-in to every `Validator` instance. They work with the following basic data types:

* integer
* float
* boolean
* string
* ip_addr

plus lists of these datatypes.

Adding additional checks is done through coding simple functions.

The full set of standard checks are:

:`integer`: matches integer values (including negative). Takes optional `min` and `max` arguments:

    integer()
    integer(3, 9)  # any value from 3 to 9
    integer(min=0) # any positive value
    integer(max=9)

:`float`: matches float values

Has the same parameters as the integer check.

:`boolean`: matches boolean values: `True` or `False`.

Acceptable string values for True are:

    true, on, yes, 1

Acceptable string values for False are:

    false, off, no, 0

Any other value raises an error.

:`string`: matches any string. Takes optional keyword args `min` and `max` to
specify min and max length of string.

:`ip_addr`: matches an Internet Protocol address, v.4, represented by a dotted-quad string, i.e. '1.2.3.4'.

:`list`: matches any list. Takes optional keyword args 'min', and 'max' to specify min and max sizes of the list. The list checks always return a list.

:`force_list`: matches any list, but if a single value is passed in will coerce it into a list containing that value. Useful for configobj if the user forgot the trailing comma to turn a single value into a list.

:`tuple`: matches any list. This check returns a tuple rather than a list.

:`int_list`: Matches a list of integers. Takes the same arguments as list.

:`float_list`: Matches a list of floats. Takes the same arguments as list.

:`bool_list`: Matches a list of boolean values. Takes the same arguments as list.

:`string_list`: Matches a list of strings. Takes the same arguments as list.

:`ip_addr_list`: Matches a list of IP addresses. Takes the same arguments as list.

:`mixed_list`: Matches a list with different types in specific positions. List size must match the number of arguments.

Each position can be one of::

int, str, boolean, float, ip_addr

So to specify a list with two strings followed by two integers, you write the check as::

mixed_list(str, str, int, int)

:`pass`: matches everything: it never fails and the value is unchanged. It is also the default if no check is specified.

:`option`: matches any from a list of options.

You specify this test with::

option('option 1', 'option 2', 'option 3')
The following code will work without you having to specifically add the functions yourself.

```python
from validate import Validator
#
vtor = Validator()
newval1 = vtor.check('integer', value1)
newval2 = vtor.check('boolean', value2)
# etc ...
```

Of course, if these checks fail they raise exceptions. So you should wrap them in `try...except` blocks. Better still, use ConfigObj for a higher level interface.

Using Validator
===============

Using `Validator` is very easy. It has one public attribute and one public method.

Shown below are the different steps in using `Validator`.

The only additional thing you need to know, is about `Writing check functions`.

Instantiate
-----------

```python
from validate import Validator
vtor = Validator()
```

or even:

```python
from validate import Validator
#
fdict = {
    'check_name1': function1,
    'check_name2': function2,
    'check_name3': function3,
```
The second method adds a set of your functions as soon as your validator is created. They are stored in the `vtor.functions` dictionary. The 'key' you give them in this dictionary is the name you use in your checks (not the original function name).

Dictionary keys/functions you pass in can override the built-in ones if you want.

Adding functions
----------------

The code shown above, for adding functions on instantiation, has exactly the same effect as the following code:

```
.. code-block:: python

    from validate import Validator
    #
    vtor = Validator()
    vtor.functions['check_name1'] = function1
    vtor.functions['check_name2'] = function2
    vtor.functions['check_name3'] = function3
```

`vtor.functions` is just a dictionary that maps names to functions, so we could also have called `vtor.functions.update(fdict)`.

Writing the check
-----------------

As we've heard, the checks map to the names in the `functions` dictionary. You've got a full list of `The standard functions` and the arguments they take.

If you're using `Validator` from ConfigObj, then your checks will look like:

```
    keyword = int_list(max=6)
```

but the check part will be identical.

The check method
If you're not using ``Validator`` from ConfigObj, then you'll need to call the ``check`` method yourself.

If the check fails then it will raise an exception, so you'll want to trap that. Here's the basic example:

```python
from validate import Validator, ValidateError
#
vtor = Validator()
check = "integer(0, 9)"
value = 3
try:
    newvalue = vtor.check(check, value)
except ValidateError:
    print 'Check Failed.'
else:
    print 'Check passed.'
```

.. caution::

Although the value can be a string, if it represents a list it should already have been turned into a list of strings.

Default Values
~~~~~~~~~~~~~~

Some values may not be available, and you may want to be able to specify a default as part of the check.

You do this by passing the keyword ``missing=True`` to the ``check`` method, as well as a ``default=value`` in the check. (Constructing these checks is done automatically by ConfigObj: you only need to know about the ``default=value`` part):

```python
check1 = 'integer(default=50)'
check2 = 'option("val 1", "val 2", "val 3", default="val 1")'

assert vtor.check(check1, '', missing=True) == 50
assert vtor.check(check2, '', missing=True) == "val 1"
```
If you pass in `missing=True` to the check method, then the actual value is ignored. If no default is specified in the check, a `ValidateMissingValue` exception is raised. If a default is specified then that is passed to the check instead.

If the check has `default=None` (case sensitive) then `vtor.check` will *always* return `None` (the object). This makes it easy to tell your program that this check contains no useful value when missing, i.e. the value is optional, and may be omitted without harm.

.. note::

As of version 0.3.0, if you specify `default='None'` (note the quote marks around `None`) then it will be interpreted as the string `''None``.

List Values
~~~~~~~~~~

It's possible that you would like your default value to be a list. It's even possible that you will write your own check functions - and would like to pass them keyword arguments as lists from within the check.

To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like:

```
checkname(default=list('val1', 'val2', 'val3'))
```

get_default_value
-----------------

``Validator`` instances have a `get_default_value` method. It takes a `check` string (the same string you would pass to the `check` method) and returns the default value, converted to the right type. If the check doesn't define a default value then this method raises a `KeyError`.

If the `check` has been seen before then it will have been parsed and cached already, so this method is not expensive to call (however the conversion is done each time).

Validator Exceptions
====================

---
.. note::

If you only use Validator through ConfigObj, it traps these Exceptions for you. You will still need to know about them for writing your own check functions.

``vtor.check`` indicates that the check has failed by raising an exception. The appropriate error should be raised in the check function.

The base error class is ``ValidateError``. All errors (except for ``VdtParamError``) raised are sub-classes of this.

If an unrecognised check is specified then ``VdtUnknownCheckError`` is raised.

There are also ``VdtTypeError`` and ``VdtValueError``.

If incorrect parameters are passed to a check function then it will (or should) raise ``VdtParamError``. As this indicates *programmer* error, rather than an error in the value, it is a subclass of ``SyntaxError`` instead of ``ValidateError``.

.. note::

This means it *won't* be caught by ConfigObj - but propagated instead.

If the value supplied is the wrong type, then the check should raise ``VdtTypeError``. e.g. the check requires the value to be an integer (or representation of an integer) and something else was supplied.

If the value supplied is the right type, but an unacceptable value, then the check should raise ``VdtValueError``. e.g. the check requires the value to be an integer (or representation of an integer) less than ten and a higher value was supplied.

Both ``VdtTypeError`` and ``VdtValueError`` are initialised with the incorrect value. In other words you raise them like this:

.. code-block:: python

    raise VdtTypeError(value)
    #
    raise VdtValueError(value)

``VdtValueError`` has the following subclasses, which should be raised if they are more appropriate.

* ``VdtValueTooSmallError``
Writing check functions
========================

Writing check functions is easy.

The check function will receive the value as its first argument, followed by any other parameters and keyword arguments.

If the check fails, it should raise a `VdtTypeError` or a `VdtValueError` (or an appropriate subclass).

All parameters and keyword arguments are *always* passed as strings. (Parsed from the check string).

The value might be a string (or list of strings) and need converting to the right type - alternatively it might already be a list of integers. Our function needs to be able to handle either.

If the check passes then it should return the value (possibly converted to the right type).

And that's it!

Example
------

Here is an example function that requires a list of integers. Each integer must be between 0 and 99.

It takes a single argument specifying the length of the list. (Which allows us to use the same check in more than one place). If the length can't be converted to an integer then we need to raise `VdtParamError`.

Next we check that the value is a list. Anything else should raise a `VdtTypeError`. The list should also have 'length' entries. If the list has more or less entries then we will need to raise a `VdtValueTooShortError` or a `VdtValueTooLongError`.

Then we need to check every entry in the list. Each entry should be an integer between 0 and 99, or a string representation of an integer between 0 and 99. Any other type is a `VdtTypeError`, any other value is a `VdtValueError` (either too big, or too small).
.. code-block:: python

    def special_list(value, length):
        
        Check that the supplied value is a list of integers,
        with 'length' entries, and each entry between 0 and 99.
        
        # length is supplied as a string
        # we need to convert it to an integer
        try:
            length = int(length)
        except ValueError:
            raise VdtParamError('length', length)
        
        # Check the supplied value is a list
        if not isinstance(value, list):
            raise VdtTypeError(value)
        
        # check the length of the list is correct
        if len(value) > length:
            raise VdtValueTooLongError(value)
        elif len(value) < length:
            raise VdtValueTooShortError(value)
        
        # Next, check every member in the list
        # converting strings as necessary
        out = []
        for entry in value:
            if not isinstance(entry, (str, unicode, int)):
                # a value in the list
                # is neither an integer nor a string
                raise VdtTypeError(value)
            elif isinstance(entry, (str, unicode)):
                if not entry.isdigit():
                    raise VdtTypeError(value)
                else:
                    entry = int(entry)
            if entry < 0:
                raise VdtValueTooSmallError(value)
            elif entry > 99:
                raise VdtValueTooBigError(value)
            out.append(entry)
        
        # if we got this far, all is well
        # return the new list
        return out
If you are only using validate from ConfigObj then the error type (*TooBig*, *TooSmall*, etc) is lost - so you may only want to raise ``VdtValueError``.

.. caution::

    If your function raises an exception that isn't a subclass of ``ValidateError``, then ConfigObj won't trap it. This means validation will fail.

This is why our function starts by checking the type of the value. If we are passed the wrong type (e.g. an integer rather than a list) we get a ``VdtTypeError`` rather than bombing out when we try to iterate over the value.

If you are using validate in another circumstance you may want to create your own subclasses of ``ValidateError`` which convey more specific information.

Known Issues
-------------

The following parses and then blows up. The resulting error message is confusing:

```
``checkname(default=list(1, 2, 3, 4))``
```

This is because it parses as: ``checkname(default="list(1", 2, 3, 4)``.
That isn't actually unreasonable, but the error message won't help you work out what has happened.

TODO
=====

* A regex check function ?
* A timestamp check function ? (Using the ``parse`` function from ``DateUtil`` perhaps).

ISSUES
=======

.. note::

    Please file any bug reports to `Michael Foord`_ or the ConfigObj `Mailing List`_.

If we could pull tuples out of arguments, it would be easier to specify arguments for `mixed_lists`.

_ Open Source Used In OnPrem2.1 2.2  4212
CHANGELOG
============

2009/10/25 - Version 1.0.1
--------------------------

* BUGFIX: Fixed compatibility with Python 2.3.

2009/04/13 - Version 1.0.0
--------------------------

* BUGFIX: can now handle multiline strings.
* Addition of 'force_list' validation option.

As the API is stable and there are no known bugs or outstanding feature requests I am marking this 1.0.

2008/02/24 - Version 0.3.2
--------------------------

BUGFIX: Handling of None as default value fixed.

2008/02/05 - Version 0.3.1
--------------------------

BUGFIX: Unicode checks no longer broken.

2008/02/05 - Version 0.3.0
--------------------------

Improved performance with a parse cache.

New `get_default_value` method. Given a check it returns the default value (converted to the correct type) or raises a `KeyError` if the check doesn't specify a default.

Added 'tuple' check and corresponding 'is_tuple' function (which always returns a tuple).

BUGFIX: A quoted 'None' as a default value is no longer treated as None, but as the string 'None'.

BUGFIX: We weren't unquoting keyword arguments of length two, so an empty string didn't work as a default.
BUGFIX: Strings no longer pass the 'is_list' check. Additionally, the list checks always return lists.

A couple of documentation bug fixes.

Removed CHANGELOG from module.

2007/02/04      Version 0.2.3
-----------------------------

Release of 0.2.3

2006/12/17      Version 0.2.3-alpha1
-----------------------------

By Nicola Larosa

Fixed validate doc to talk of `boolean` instead of `bool`; changed the `is_bool` function to `is_boolean` (Sourceforge bug #1531525).

2006/04/29      Version 0.2.2
-----------------------------

Addressed bug where a string would pass the `is_list` test. (Thanks to Konrad Wojas.)

2005/12/16      Version 0.2.1
-----------------------------

Fixed bug so we can handle keyword argument values with commas.

We now use a list constructor for passing list values to keyword arguments (including `default`):

    default=list("val", "val", "val")

Added the `__test__` test.

Moved a function call outside a try...except block.

2005/08/18      Version 0.2.0
-----------------------------
Updated by `Michael Foord`_ and `Nicola Larosa`_.

Does type conversion as well.

2005/02/01    Version 0.1.0

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

Initial version developed by `Michael Foord`_ and Mark Andrews.

Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhSEs8B/configobj-4.7.2/docs/validate.txt

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==================================
Reading and Writing Config Files
==================================

ConfigObj 4 Introduction and Reference

Authors: Michael Foord, Nicola Larosa
Version: ConfigObj 4.7.2
Date: 2010/02/27
Homepage: `ConfigObj Homepage`_
PyPI Entry: `ConfigObj on PyPI <http://pypi.python.org/pypi/configobj/>`_
Development: `Google Code Homepage`_
License: `BSD License`_
Support: `Mailing List`_

.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
.. _Google Code Homepage: http://code.google.com/p/configobj/

.. meta::

description: ConfigObj - a Python module for easy reading and writing of config files.
keywords: python, script, module, config, configuration, data, persistence, developer, configparser

.. contents:: ConfigObj Manual

 .. sectnum::

 .. note::

 The best introduction to working with ConfigObj, including the powerful configuration validation system,
is the article:

* `An Introduction to ConfigObj <http://www.voidspace.org.uk/python/articles/configobj.shtml>`_

**Introduction**

**ConfigObj** is a simple but powerful config file reader and writer: an *ini file round tripper*. Its main feature is that it is very easy to use, with a straightforward programmer's interface and a simple syntax for config files. It has lots of other features though:

* Nested sections (subsections), to any level
* List values
* Multiple line values
* String interpolation (substitution)
* Integrated with a powerful validation system

  - including automatic type checking/conversion
  - repeated sections
  - and allowing default values

* When writing out config files, ConfigObj preserves all comments and the order of members and sections
* Many useful methods and options for working with configuration files (like the 'reload' method)
* Full Unicode support

For support and bug reports please use the ConfigObj `Mailing List`_ or the issue tracker on the `Google Code Homepage`_.

**Downloading**

The current version is **4.7.2**, dated 27th February 2010. ConfigObj 4 is stable and mature. We still expect to pick up a few bugs along the way though [#]_.

You can get ConfigObj in the following ways:

* configobj.py_ from Voidspace

  ConfigObj has no external dependencies. This file is sufficient to access all the functionality except Validation_.

* configobj.zip_ from Voidspace

  This also contains validate.py_ and `this document`_.
Open Source Used In OnPrem2.1 2.2  4217

* validate.py _from Voidspace

Installing
----------

ConfigObj has a source distribution `on PyPI <http://pypi.python.org/pypi/configobj/>`_. If you unzip the archive you can install it with::

    setup.py install

Alternatively, you can install with easy install or pip::

    easy_install configobj

Documentation
-------------

*configobj.zip* also contains `this document`_.

* You can view `this document`_ online at the `ConfigObj Homepage`_.

Development Version
-------------------

It is sometimes possible to get the latest *development version* of ConfigObj from the Subversion Repository maintained on the `Google Code Homepage`_.

.. _configobj.py: http://www.voidspace.org.uk/downloads/configobj.py
.. _configobj.zip: http://www.voidspace.org.uk/downloads/configobj-4.7.2.zip
.. _validate.py: http://www.voidspace.org.uk/downloads/validate.py
.. _this document:
.. _configobj homepage: http://www.voidspace.org.uk/python/configobj.html

ConfigObj in the Real World
===========================

**ConfigObj** is widely used. Projects using it include:

* `Bazaar <http://bazaar-ng.org>`_.

Bazaar is a Python distributed [acro;VCS;Version Control System]. ConfigObj is used to read `bazaar.conf` and `branches.conf`.
* Chandler <http://chandler.osafoundation.org/>_ 

A Python and `wxPython <http://www.wxpython.org>`_ Personal Information Manager, being developed by the `OSAFoundation <http://www.osafoundation.org/>`_.

* `matplotlib <http://matplotlib.sourceforge.net/>`_ 

A 2D plotting library.

* `IPython <http://ipython.scipy.org/moin/>`_ 

IPython is an enhanced interactive Python shell. IPython uses ConfigObj in a module called 'TConfig' that combines it with enthought `Traits <http://code.enthought.com/traits/>`: `tconfig <http://ipython.scipy.org/ipython/ipython/browser/ipython/branches/saw/sandbox/tconfig>`_.

* `Elisa - the Fluendo Mediacenter <http://elisa.fluendo.com/>`_ 

Elisa is an open source cross-platform media center solution designed to be simple for people not particularly familiar with computers.

Getting Started
===============

The outstanding feature of using ConfigObj is simplicity. Most functions can be performed with single line commands.

Reading a Config File
---------------------

The normal way to read a config file, is to give ConfigObj the filename :

```python
from configobj import ConfigObj
cfg = ConfigObj(filename)
```

You can also pass the config file in as a list of lines, or a `StringIO` instance, so it doesn't matter where your config data comes from.

You can then access members of your config file as a dictionary. Subsections will also be dictionaries.

```python
```
from configobj import ConfigObj
config = ConfigObj(filename)
#
value1 = config['keyword1']
value2 = config['keyword2']
#
section1 = config['section1']
value3 = section1['keyword3']
value4 = section1['keyword4']
#
# you could also write
value3 = config['section1']['keyword3']
value4 = config['section1']['keyword4']

Writing a Config File
---------------------

Creating a new config file is just as easy as reading one. You can specify a filename when you create the ConfigObj, or do it later [#]_.

If you *don't* set a filename, then the `write` method will return a list of lines instead of writing to file. See the write_ method for more details.

Here we show creating an empty ConfigObj, setting a filename and some values, and then writing to file :

.. code-block:: python

    from configobj import ConfigObj
    config = ConfigObj()
    config.filename = filename
    #
    config['keyword1'] = value1
    config['keyword2'] = value2
    #
    config['section1'] = {}
    config['section1']['keyword3'] = value3
    config['section1']['keyword4'] = value4
    #
    section2 = {
        'keyword5': value5,
        'keyword6': value6,
        'sub-section': {
            'keyword7': value7
        }
    }
config['section2'] = section2
#
config['section3'] = {}
config['section3']['keyword 8'] = [value8, value9, value10]
config['section3']['keyword 9'] = [value11, value12, value13]
#
config.write()

.. caution::

    Keywords and section names can only be strings [#]. Attempting to set
    anything else will raise a ``ValueError``.

    See `String Interpolation and List Values`_ for an important note on
    using lists in combination with `String Interpolation`_.

Config Files
------------

The config files that ConfigObj will read and write are based on the `INI`
format. This means it will read and write files created for `ConfigParser` [#].

Keywords and values are separated by an ```=```, and section markers are
between square brackets. Keywords, values, and section names can be surrounded
by single or double quotes. Indentation is not significant, but can be
preserved.

Subsections are indicated by repeating the square brackets in the section
marker. You nest levels by using more brackets.

You can have list values by separating items with a comma, and values spanning
multiple lines by using triple quotes (single or double).

For full details on all these see `the config file format`_. Here's an example
to illustrate::

    # This is the 'initial_comment'
    # Which may be several lines
    keyword1 = value1
    'keyword 2' = 'value 2'

    [ "section 1" ]
    # This comment goes with keyword 3
    keyword 3 = value 3
    'keyword 4' = value4, value 5, 'value 6'
ConfigObj specifications

.. code-block:: python

    config = ConfigObj(infile=None, options=None, configspec=None, encoding=None,
                       interpolation=True, raise_errors=False, list_values=True,
                       create_empty=False, file_error=False, stringify=True,
                       indent_type=None, default_encoding=None, unrepr=False,
                       write_empty_values=False, _inspec=False)

Many of the keyword arguments are available as attributes after the config file has been parsed.

.. note::

    New in ConfigObj 4.7.0: Instantiating ConfigObj with an `"options` dictionary is now deprecated. To modify code that used to do this simply unpack the dictionary in the constructor call:

    .. code-block:: python

        config = ConfigObj(filename, **options)

ConfigObj takes the following arguments (with the default values shown):

* infile: `"None`
You don't need to specify an infile. If you omit it, an empty ConfigObj will be created. ``infile`` *can* be:

* Nothing. In which case the `filename` attribute of your ConfigObj will be `None`. You can set a filename at any time.

* A filename. What happens if the file doesn't already exist is determined by the options `file_error` and `create_empty`. The filename will be preserved as the `filename` attribute. This can be changed at any time.

* A list of lines. Any trailing newlines will be removed from the lines. The `filename` attribute of your ConfigObj will be `None`.

* A `StringIO` instance or file object, or any object with a `read` method. The `filename` attribute of your ConfigObj will be `None` [#].

* A dictionary. You can initialise a ConfigObj from a dictionary [#]. The `filename` attribute of your ConfigObj will be `None`. All keys must be strings. In this case, the order of values and sections is arbitrary.

* `raise_errors`: `False`

When parsing, it is possible that the config file will be badly formed. The default is to parse the whole file and raise a single error at the end. You can set `raise_errors = True` to have errors raised immediately. See the exceptions section for more details.

Altering this value after initial parsing has no effect.

* `list_values`: `True`

If `True` (the default) then list values are possible. If `False`, the values are not parsed for lists.

If `list_values = False` then single line values are not quoted or unquoted when reading and writing.

Changing this value affects whether single line values will be quoted or not when writing.

* `create_empty`: `False`

If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will create an empty file. This can be a useful test that the filename makes sense: an impossible filename will cause an error.

Altering this value after initial parsing has no effect.
* 'file_error': `False`

If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will raise an `IOError`.

Altering this value after initial parsing has no effect.

* 'interpolation': `True`

Whether string interpolation is switched on or not. It is on (`True`) by default.

You can set this attribute to change whether string interpolation is done when values are fetched. See the `String Interpolation` section for more details.

New in ConfigObj 4.7.0: Interpolation will also be done in list values.

* 'configspec': `None`

If you want to use the validation system, you supply a configspec. This is effectively a type of config file that specifies a check for each member. This check can be used to do type conversion as well as check that the value is within your required parameters.

You provide a configspec in the same way as you do the initial file: a filename, or list of lines, etc. See the validation section for full details on how to use the system.

When parsed, every section has a `configspec` with a dictionary of configspec checks for *that section*.

* 'stringify': `True`

If you use the validation scheme, it can do type checking *and* conversion for you. This means you may want to set members to integers, or other non-string values.

If 'stringify' is set to `True` (default) then non-string values will be converted to strings when you write the config file. The validation process converts values from strings to the required type.

If 'stringify' is set to `False`, attempting to set a member to a non-string value [#] will raise a `TypeError` (no type conversion is done by validation).

* 'indent_type': `    `

Indentation is not significant; it can however be present in the input and
output config. Any combination of tabs and spaces may be used: the string
will be repeated for each level of indentation. Typical values are: \``\``
(no indentation), \``    \`` (indentation with four spaces, the default),
\``\t\`` (indentation with one tab).

If this option is not specified, and the ConfigObj is initialised with a
dictionary, the indentation used in the output is the default one, that is,
four spaces.

If this option is not specified, and the ConfigObj is initialised with a
list of lines or a file, the indentation used in the first indented line is
selected and used in all output lines. If no input line is indented, no
output line will be either.

If this option *is* specified, the option value is used in the output
config, overriding the type of indentation in the input config (if any).

* 'encoding': `None`

By default **ConfigObj** does not decode the file/strings you pass it into
Unicode [¹]. If you want your config file as Unicode (keys and members)
you need to provide an encoding to decode the file with. This encoding will
also be used to encode the config file when writing.

You can change the encoding attribute at any time.

Any characters in your strings that can't be encoded with the specified
encoding will raise a `UnicodeEncodeError`.

.. note::

   `UTF16` encoded files will automatically be detected and decoded,
even if `encoding` is `None`.

   This is because it is a 16-bit encoding, and ConfigObj will mangle it
   (split characters on byte boundaries) if it parses it without decoding.

* 'default_encoding': `None`

When using the `write` method, **ConfigObj** uses the `encoding` attribute to encode the Unicode strings. If any members (or keys) have
been set as byte strings instead of Unicode, these must first be decoded
to Unicode before outputting in the specified encoding.

`default_encoding`, if specified, is the encoding used to decode byte
strings in the **ConfigObj** before writing. If this is `None`, then
the Python default encoding (`sys.defaultencoding` - usually ASCII) is
used.
For most Western European users, a value of `latin-1` is sensible.

``default_encoding`` is *only* used if an `encoding` is specified.

Any characters in byte-strings that can't be decoded using the
``default_encoding`` will raise a `UnicodeDecodeError`.

* `unrepr`: `False`

The ``unrepr`` option reads and writes files in a different mode. This
allows you to store and retrieve the basic Python data-types using config
files.

This uses Python syntax for lists and quoting. See `unrepr mode` for the
full details.

* `write_empty_values`: `False`

If `write_empty_values` is `True`, empty strings are written as
empty values. See `Empty Values` for more details.

* `_inspec`: `False`

Used internally by ConfigObj when parsing configspec files. If you are
creating a ConfigObj instance from a configspec file you must pass True
for this argument as well as `list_values=False`.

Methods
-------

The ConfigObj is a subclass of an object called `Section`, which is itself a
subclass of `dict`, the builtin dictionary type. This means it also has
**all** the normal dictionary methods.

In addition, the following `Section Methods` may be useful:

* `restore_default`
* `restore_defaults`
* `walk`
* `merge`
* `dict`
* `as_bool`
* `as_float`
* `as_int`
* `as_list`
Read about Sections for details of all the methods.

.. hint::

    The *merge* method of sections is a recursive update.

    You can use this to merge sections, or even whole ConfigObjs, into each other.

    You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default. You can use configspecs and validation to achieve the same thing of course.

The public methods available on ConfigObj are:

* 'write'
* 'validate'
* 'reset'
* 'reload'

write
~~~~~~

.. code-block:: python

    write(file_object=None)

This method writes the current ConfigObj and takes a single, optional argument[#].

If you pass in a file like object to the `write` method, the config file will be written to this. (The only method of this object that is used is its `write` method, so a `StringIO` instance, or any other file like object will work.)

Otherwise, the behaviour of this method depends on the `filename` attribute of the ConfigObj.

`filename`

    ConfigObj will write the configuration to the file specified.

`None`

    `write` returns a list of lines. (Not `\n` terminated)

First the `initial_comment` is written, then the config file, followed by the
'final_comment'. Comment lines and inline comments are written with each key/value.

```python
validate
```

```python
validate(validator, preserve_errors=False, copy=False)
```

```python
# filename is the config file
# filename2 is the configspec
# (which could also be hardcoded into your program)
config = ConfigObj(filename, configspec=filename2)

# from validate import Validator
val = Validator()
test = config.validate(val)
if test == True:
    print 'Succeeded.'
```

The validate method uses the `validate <http://www.voidspace.org.uk/python/validate.html>` module to do the validation.

This method validates the ConfigObj against the configspec. By doing type conversion as well it can abstract away the config file altogether and present the config *data* to your application (in the types it expects it to be).

If the `configspec` attribute of the ConfigObj is `None`, it raises a `ValueError`.

If the `stringify_` attribute is set, this process will convert values to the type defined in the configspec.

The validate method uses checks specified in the configspec and defined in the `Validator` object. It is very easy to extend.

The configspec looks like the config file, but instead of the value, you specify the check (and any default value). See the validation section for details.

.. hint::
The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best guide to them is this article on ConfigObj:

* `An Introduction to ConfigObj`_

The `copy` parameter fills in missing values from the configspec (default values), *without* marking the values as defaults. It also causes comments to be copied from the configspec into the config file. This allows you to use a configspec to create default config files. (Normally default values aren't written out by the `write` method.)

As of ConfigObj 4.3.0 you can also pass in a ConfigObj instance as your configspec. This is especially useful if you need to specify the encoding of your configspec file. When you read your configspec file, you *must* specify `list_values=False`. If you need to support hashes inside the configspec values then you must also pass in `_inspec=True`. This is because configspec files actually use a different syntax to config files and inline comment support must be switched off to correctly read configspec files with hashes in the values.

```python
from configobj import ConfigObj
configspec = ConfigObj(configspecfilename, encoding='UTF8',
                        list_values=False, _inspec=True)
config = ConfigObj(filename, configspec=configspec)
```

Return Value

By default, the validate method either returns `True` (everything passed) or a dictionary of `True` / `False` representing pass/fail. The dictionary follows the structure of the ConfigObj.

If a whole section passes then it is replaced with the value `True`. If a whole section fails, then it is replaced with the value `False`.

If a value is missing, and there is no default in the check, then the check automatically fails.

The `validate` method takes an optional keyword argument `preserve_errors`. If you set this to `True`, instead of getting `False` for failed checks you get the actual error object from the `validate` module. This usually contains useful information about why the check failed.

See the `flatten_errors` function for how to turn your results dictionary into
a useful list of error messages.

Even if ``preserve_errors`` is ``True``, missing keys or sections will still be represented by a ``False`` in the results dictionary.

Mentioning Default Values

In the check in your configspec, you can specify a default to be used - by using the ``default`` keyword. E.g. ::

```
key1 = integer(0, 30, default=15)
key2 = integer(default=15)
key3 = boolean(default=True)
key4 = option('Hello', 'Goodbye', 'Not Today', default='Not Today')
```

If the configspec check supplies a default and the value is missing in the config, then the default will be set in your ConfigObj. (It is still passed to the ``Validator`` so that type conversion can be done: this means the default value must still pass the check.)

ConfigObj keeps a record of which values come from defaults, using the ``defaults`` attribute of sections_. Any key in this list isn't written out by the ``write`` method. If a key is set from outside (even to the same value) then it is removed from the ``defaults`` list.

.. note::

Even if all the keys in a section are in the defaults list, the section marker is still written out.

There is additionally a special case default value of ``None``. If you set the default value to ``None`` and the value is missing, the value will always be set to ``None``. As the other checks don't return ``None`` (unless you implement your own that do), you can tell that this value came from a default value (and was missing from the config file). It allows an easy way of implementing optional values. Simply check (and ignore) members that are set to ``None``.

.. note::

If stringify_ is ``False`` then ``default=None`` returns ``''`` instead of ``'None'``. This is because setting a value to a non-string raises an error if stringify is unset.

The default value can be a list. See `List Values`_ for the way to do this.
Writing invalid default values is a guaranteed way of confusing your users. Default values must pass the check.

Mentioning Repeated Sections and Values

In the configspec it is possible to cause every sub-section in a section to be validated using the same configspec. You do this with a section in the configspec called ``__many__``. Every sub-section in that section has the ``__many__`` configspec applied to it (without you having to explicitly name them in advance).

Your ``__many__`` section can have nested subsections, which can also include ``__many__`` type sections.

You can also specify that all values should be validated using the same configspec, by having a member with the name ``__many__``. If you want to use repeated values along with repeated sections then you can call one of them ``___many___`` (triple underscores).

Sections with repeated sections or values can also have specifically named sub-sections or values. The ``__many__`` configspec will only be used to validate entries that don't have an explicit configspec.

See `Repeated Sections` for examples.

Mentioning SimpleVal

If you just want to check if all members are present, then you can use the `SimpleVal` object that comes with ConfigObj. It only fails members if they are missing.

Write a configspec that has all the members you want to check for, but set every section to `''`.

```python
val = SimpleVal()
test = config.validate(val)
if test is True:
    print 'Succeeded.'
```

Mentioning copy Mode

---

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As discussed in `Mentioning Default Values`_, you can use a configspec to supply default values. These are marked in the ConfigObj instance as defaults, and *not* written out by the `write` mode. This means that your users only need to supply values that are different from the defaults.

This can be inconvenient if you *do* want to write out the default values, for example to write out a default config file.

If you set `copy=True` when you call validate, then no values are marked as defaults. In addition, all comments from the configspec are copied into your ConfigObj instance. You can then call `write` to create your config file.

There is a limitation with this. In order to allow `String Interpolation`_ to work within configspecs, `DEFAULT` sections are not processed by validation; even in copy mode.

reload
~~~~~~

If a ConfigObj instance was loaded from the filesystem, then this method will reload it. It will also reuse any configspec you supplied at instantiation (including reloading it from the filesystem if you passed it in as a filename).

If the ConfigObj does not have a filename attribute pointing to a file, then a `ReloadError` will be raised.

reset
~~~~~~

This method takes no arguments and doesn't return anything. It restores a ConfigObj instance to a freshly created state.

Attributes
----------

A ConfigObj has the following attributes:

- indent_type
- interpolation
- stringify
- BOM
- initial_comment
- final_comment
* list_values
* encoding
* default_encoding
* unrepr
* write_empty_values
* newlines

.. note::

   This doesn't include *comments*, *inline_comments*, *defaults*, or
   *configspec*. These are actually attributes of Sections_.

   It also has the following attributes as a result of parsing. They correspond to
   options when the ConfigObj was created, but changing them has no effect.

   * raise_errors
   * create_empty
   * file_error

interpolation
~~~~~~~~~~~~~~

ConfigObj can perform string interpolation in a *similar* way to
``ConfigParser``. See the `String Interpolation`_ section for full details.

If `interpolation` is set to `False`, then interpolation is *not* done when
you fetch values.

stringify
~~~~~~~~~~

If this attribute is set (`True`) then the validate_ method changes the
values in the ConfigObj. These are turned back into strings when write_ is
called.

If stringify is unset (`False`) then attempting to set a value to a non
string (or a list of strings) will raise a `TypeError`.

BOM
~~~

If the initial config file *started* with the UTF8 Unicode signature (known
slightly incorrectly as the BOM - Byte Order Mark), or the UTF16 BOM, then
this attribute is set to `True`. Otherwise it is `False`. 
If it is set to `'True` when `write` is called then, if `encoding` is set to `'None` *or* to `'utf_8` (and variants) a UTF BOM will be written.

For UTF16 encodings, a BOM is *always* written.

initial_comment
~~~~~~~~~~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments before the start of the members.

If you create a new ConfigObj, this will be an empty list.

The write method puts these lines before it starts writing out the members.

final_comment
~~~~~~~~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments after the last member.

If you create a new ConfigObj, this will be an empty list.

The `write` method puts these lines after it finishes writing out the members.

list_values
~~~~~~~~~~

This attribute is `'True` or `'False`. If set to `'False` then values are not parsed for list values. In addition single line values are not unquoted.

This allows you to do your own parsing of values. It exists primarily to support the reading of the configspec - but has other use cases.

For example you could use the `'LineParser` from the `listquote module <http://www.voidspace.org.uk/python/listquote.html#lineparser>` to read values for nested lists.

Single line values aren't quoted when writing - but multiline values are handled as normal.

.. caution::

Because values aren't quoted, leading or trailing whitespace can be lost. This behaviour was changed in version
4.0.1. Prior to this, single line values might have been quoted; even with `list_values=False`. This means that files written by earlier versions of ConfigObj *could* now be incompatible and need the quotes removing by hand.

**encoding**

```
This is the encoding used to encode the output, when you call `write`. It must be a valid encoding `recognised by Python <http://docs.python.org/lib/standard-encodings.html>`_.
```

If this value is `None` then no encoding is done when `write` is called.

**default_encoding**

```
If encoding is set, any byte-strings in your ConfigObj instance (keys or members) will first be decoded to Unicode using the encoding specified by the `default_encoding` attribute. This ensures that the output is in the encoding specified.
```

If this value is `None` then `sys.defaultencoding` is used instead.

**unrepr**

```
Another boolean value. If this is set, then `repr(value)` is used to write values. This writes values in a slightly different way to the normal ConfigObj file syntax.
```

This preserves basic Python data-types when read back in. See `unrepr mode` for more details.

**write_empty_values**

```
Also boolean. If set, values that are an empty string (`''`) are written as empty values. See `Empty Values` for more details.
```

**newlines**

When a config file is read, ConfigObj records the type of newline separators in the file and uses this separator when writing. It defaults to `None`, and ConfigObj uses the system default (`os.sep`) if write is called without newlines having
been set.

The Config File Format
======================

You saw an example config file in the `Config Files` section. Here is a fuller specification of the config files used and created by ConfigObj.

The basic pattern for keywords is:

```
# comment line
# comment line
keyword = value # inline comment
```

Both keyword and value can optionally be surrounded in quotes. The equals sign is the only valid divider.

Values can have comments on the lines above them, and an inline comment after them. This, of course, is optional. See the comments section for details.

If a keyword or value starts or ends with whitespace, or contains a quote mark or comma, then it should be surrounded by quotes. Quotes are not necessary if whitespace is surrounded by non-whitespace.

Values can also be lists. Lists are comma separated. You indicate a single member list by a trailing comma. An empty list is shown by a single comma:

```
keyword1 = value1, value2, value3
keyword2 = value1, # a single member list
keyword3 = , # an empty list
```

Values that contain line breaks (multi-line values) can be surrounded by triple quotes. These can also be used if a value contains both types of quotes. List members cannot be surrounded by triple quotes:

```
keyword1 = """ A multi line value on several lines"" "" with a comment
keyword2 = """I won't be "afraid"."""
#
keyword3 = """"""" A multi line value on several lines""""""" with a comment
keyword4 = """""""I won't be "afraid"."""
```

.. warning::
There is no way of safely quoting values that contain both types of triple quotes.

A line that starts with a '#', possibly preceded by whitespace, is a comment.

New sections are indicated by a section marker line. That is the section name in square brackets. Whitespace around the section name is ignored. The name can be quoted with single or double quotes. The marker can have comments before it and an inline comment after it:

```
# The First Section
[ section name 1 ] # first section
keyword1 = value1

# The Second Section
[ "section name 2" ] # second section
keyword2 = value2
```

Any subsections (sections that are *inside* the current section) are designated by repeating the square brackets before and after the section name. The number of square brackets represents the nesting level of the sub-section. Square brackets may be separated by whitespace; such whitespace, however, will not be present in the output config written by the ``write`` method.

Indentation is not significant, but can be preserved. See the description of the ``indent_type`` option, in the `ConfigObj specifications` chapter, for the details.

A *NestingError* will be raised if the number of the opening and the closing brackets in a section marker is not the same, or if a sub-section's nesting level is greater than the nesting level of its parent plus one.

In the outer section, single values can only appear before any sub-section. Otherwise they will belong to the sub-section immediately before them:

```
# initial comment
keyword1 = value1
keyword2 = value2

[section 1]
keyword1 = value1
keyword2 = value2

[[sub-section]]
# this is in section 1
keyword1 = value1
keyword2 = value2
```
When parsed, the above config file produces the following data structure:

```python
ConfigObj(
    'keyword1': 'value1',
    'keyword2': 'value2',
    'section 1': {
        'keyword1': 'value1',
        'keyword2': 'value2',
        'sub-section': {
            'keyword1': 'value1',
            'keyword2': 'value2',
            'nested section': {
                'keyword1': 'value1',
                'keyword2': 'value2',
            },
        },
        'sub-section2': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
        'sub-section3': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
    },
)
```
Sections are ordered: note how the structure of the resulting ConfigObj is in the same order as the original file.

.. note::

In ConfigObj 4.3.0 *empty values* became valid syntax. They are read as the empty string. There is also an option/attribute (``write_empty_values``) to allow the writing of these.

This is mainly to support 'legacy' config files, written from other applications. This is documented under `Empty Values`_.

`unrepr mode`_ introduces *another* syntax variation, used for storing basic Python datatypes in config files.

Sections
========

Every section in a ConfigObj has certain properties. The ConfigObj itself also has these properties, because it too is a section (sometimes called the *root section*).

``Section`` is a subclass of the standard new-class dictionary, therefore it has **all** the methods of a normal dictionary. This means you can ``update`` and ``clear`` sections.

.. note::

You create a new section by assigning a member to be a dictionary.

The new ``Section`` is created *from* the dictionary, but isn't the same thing as the dictionary. (So references to the dictionary you use to create the section *aren't* references to the new section).

Note the following.

.. code-block:: python

    config = ConfigObj()
    vals = {'key1': 'value 1',
            'key2': 'value 2'
    }
    config['vals'] = vals
    config['vals'] == vals
    True
    config['vals'] is vals
    False
If you now change `vals`, the changes won't be reflected in `config[vals]`.

A section is ordered, following its `scalars` and `sections` attributes documented below. This means that the following dictionary attributes return their results in order.

* `__iter__`

  More commonly known as `for member in section:`.

* `__repr__` and `__str__`

  Any time you print or display the ConfigObj.

* `items`

* `iteritems`

* `iterkeys`

* `itervalues`

* `keys`

* `popitem`

* `values`

Section Attributes
--------------------

* main

  A reference to the main ConfigObj.

* parent

  A reference to the `parent` section, the section that this section is a member of.

  On the ConfigObj this attribute is a reference to itself. You can use this to walk up the sections, stopping when `section.parent is section`.

* depth

  The nesting level of the current section.
If you create a new ConfigObj and add sections, 1 will be added to the depth level between sections.

* defaults

This attribute is a list of scalars that came from default values. Values that came from defaults aren't written out by the `write` method. Setting any of these values in the section removes them from the defaults list.

* default_values

This attribute is a dictionary mapping keys to the default values for the keys. By default it is an empty dictionary and is populated when you validate the ConfigObj.

* scalars, sections

These attributes are normal lists, representing the order that members, single values and subsections appear in the section. The order will either be the order of the original config file, or the order that you added members.

The order of members in this lists is the order that `write` creates in the config file. The `scalars` list is output before the `sections` list.

Adding or removing members also alters these lists. You can manipulate the lists directly to alter the order of members.

.. warning::

   If you alter the `scalars`, `sections`, or `defaults` attributes so that they no longer reflect the contents of the section, you will break your ConfigObj.

See also the `rename` method.

* comments

This is a dictionary of comments associated with each member. Each entry is a list of lines. These lines are written out before the member.

* inline_comments

This is *another* dictionary of comments associated with each member. Each entry is a string that is put inline with the member.
* configspec

The configspec attribute is a dictionary mapping scalars to *checks*. A check defines the expected type and possibly the allowed values for a member.

The configspec has the same format as a config file, but instead of values it has a specification for the value (which may include a default value). The validate_ method uses it to check the config file makes sense. If a configspec is passed in when the ConfigObj is created, then it is parsed and broken up to become the `"configspect` attribute of each section.

If you didn't pass in a configspec, this attribute will be `"None` on the root section (the main ConfigObj).

You can set the configspec attribute directly on a section.

See the validation_ section for full details of how to write configspecs.

* extra_values

By default an empty list. After validation_ this is populated with any members of the section that don't appear in the configspec (i.e. they are additional values). Rather than accessing this directly it may be more convenient to get all the extra values in a config file using the get_extra_values_ function.

New in ConfigObj 4.7.0.

Section Methods
---------------

* **dict**

This method takes no arguments. It returns a deep copy of the section as a dictionary. All subsections will also be dictionaries, and list values will be copies, rather than references to the original [#].

* **rename**

  `"rename(oldkey, newkey)`

This method renames a key, without affecting its position in the sequence.

* **merge**

  `"merge(indict)`
This method is a *recursive update* method. It allows you to merge two config files together.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default.

For example:

.. code-block:: python

    # def_cfg contains your default config settings
    # user_cfg contains the user settings
    cfg = ConfigObj(def_cfg)
    usr = ConfigObj(user_cfg)
    #
    cfg.merge(usr)

````
    cfg now contains a combination of the default settings and the user settings.
````

The user settings will have overwritten any of the default ones.

* ***walk***

This method can be used to transform values and names. See `walking a section`_ for examples and explanation.

* ***as_bool***

``as_bool(key)`

Returns `"True"` if the key contains a string that represents `"True"`, or is the `"True"` object.

Returns `"False"` if the key contains a string that represents `"False"`, or is the `"False"` object.

Raises a `"ValueError"` if the key contains anything else.

Strings that represent `"True"` are (not case sensitive):

    true, yes, on, 1

Strings that represent `"False"` are:
false, no, off, 0

* **as_int**

``as_int(key)`

This returns the value contained in the specified key as an integer.

It raises a `ValueError` if the conversion can't be done.

* **as_float**

``as_float(key)`

This returns the value contained in the specified key as a float.

It raises a `ValueError` if the conversion can't be done.

* **as_list**

``as_list(key)`

This returns the value contained in the specified key as a list.

If it isn't a list it will be wrapped as a list so that you can guarantee the returned value will be a list.

* **restore_default**

``restore_default(key)`

Restore (and return) the default value for the specified key.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

If there is no default value for this key, `KeyError` is raised.

* **restore_defaults**

``restore_defaults()`

Recursively restore default values to all members
Walking a Section
-----------------

.. note::

The walk method allows you to call a function on every member/name.

.. code-block:: python

    walk(function, raise_errors=True, 
          call_on_sections=False, **keywargs)

``walk`` is a method of the ``Section`` object. This means it is also a method of ConfigObj.

It walks through every member and calls a function on the keyword and value. It walks recursively through subsections.

It returns a dictionary of all the computed values.

If the function raises an exception, the default is to propagate the error, and stop. If ``raise_errors=False`` then it sets the return value for that keyword to ``False`` instead, and continues. This is similar to the way validation works.

Your function receives the arguments ``(section, key)``. The current value is then ``section[key]``. Any unrecognised keyword arguments you pass to walk, are passed on to the function.

Normally ``walk`` just recurses into subsections. If you are transforming (or checking) names as well as values, then you want to be able to change the names of sections. In this case set ``call_on_sections`` to ``True``. Now, on encountering a sub-section, *first* the function is called for the *whole* sub-section, and *then* it recurses into it's members. This means your function must be able to handle receiving dictionaries as well as strings and lists.

If you are using the return value from ``walk`` *and* ``call_on_sections``, note that walk discards the return value when it calls your function.
.. caution::

You can use ``walk`` to transform the names of members of a section
but you mustn't add or delete members.

Examples
--------

You can use this for transforming all values in your ConfigObj. For example
you might like the nested lists from ConfigObj 3. This was provided by the
listquote module. You could switch off the parsing for list values
(``list_values=False``) and use listquote to parse every value.

Another thing you might want to do is use the Python escape codes in your
values. You might be *used* to using ``\n`` for line feed and ``\t`` for tab.
Obviously we'd need to decode strings that come from the config file (using the
escape codes). Before writing out we'll need to put the escape codes back in
encode.

As an example we'll write a function to use with walk, that encodes or decodes
values using the ``string-escape`` codec.

The function has to take each value and set the new value. As a bonus we'll
create one function that will do decode *or* encode depending on a keyword
argument.

We don't want to work with section names, we're only transforming values, so
we can leave ``call_on_sections`` as ``False``. This means the two datatypes we
have to handle are strings and lists, we can ignore everything else. (We'll
treat tuples as lists as well).

We're not using the return values, so it doesn't need to return anything, just
change the values if appropriate.

.. code-block:: python

    def string_escape(section, key, encode=False):
        """
        A function to encode or decode using the 'string-escape' codec.
        To be passed to the walk method of a ConfigObj.
        By default it decodes.
        To encode, pass in the keyword argument ``encode=True``.
        """
        val = section[key]
        # is it a type we can work with
        # NOTE: for platforms where Python > 2.2
# you can use basestring instead of (str, unicode)
if not isinstance(val, (str, unicode, list, tuple)):
    # no!
    return
elif isinstance(val, (str, unicode)):
    # it's a string!
    if not encode:
        section[key] = val.decode('string-escape')
    else:
        section[key] = val.encode('string-escape')
else:
    # it must be a list or tuple!
    # we'll be lazy and create a new list
    newval = []
    # we'll check every member of the list
    for entry in val:
        if isinstance(entry, (str, unicode)):
            if not encode:
                newval.append(entry.decode('string-escape'))
            else:
                newval.append(entry.encode('string-escape'))
        else:
            newval.append(entry)
    # done!
    section[key] = newval

# assume we have a ConfigObj called ``config``
#
# To decode
config.walk(string_escape)
#
# To encode.
# Because ``walk`` doesn't recognise the ``encode`` argument
# it passes it to our function.
config.walk(string_escape, encode=True)

Here's a simple example of using ``walk`` to transform names and values. One
usecase of this would be to create a *standard* config file with placeholders
for section and keynames. You can then use walk to create new config files
and change values and member names:

.. code-block:: python

    # We use 'XXXX' as a placeholder
    config = ""
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
Exceptions
============

There are several places where ConfigObj may raise exceptions (other than because of bugs).

1) If a configspec filename you pass in doesn't exist, or a config file filename doesn't exist *and* ``file_error=True``, an ``IOError`` will be raised.
2) If you try to set a non-string key, or a non string value when
``stringify=False``, a ``TypeError`` will be raised.

3) A badly built config file will cause parsing errors.

4) A parsing error can also occur when reading a configspec.

5) In string interpolation you can specify a value that doesn't exist, or
create circular references (recursion).

Number 5 (which is actually two different types of exceptions) is documented
in `String Interpolation`.

*This* section is about errors raised during parsing.

The base error class is ``ConfigObjError``. This is a subclass of
``SyntaxError``, so you can trap for ``SyntaxError`` without needing to
directly import any of the ConfigObj exceptions.

The following other exceptions are defined (all deriving from
``ConfigObjError``):

* "NestingError"

  This error indicates either a mismatch in the brackets in a section marker,
or an excessive level of nesting.

* "ParseError"

  This error indicates that a line is badly written. It is neither a valid
  ``key = value`` line, nor a valid section marker line, nor a comment line.

* "DuplicateError"

  The keyword or section specified already exists.

* "ConfigspecError"

  An error occurred whilst parsing a configspec.

* "UnreprError"

  An error occurred when parsing a value in `unrepr mode`.

* "ReloadError"

  `reload` was called on a ConfigObj instance that doesn't have a valid
  filename attribute.
When parsing a configspec, ConfigObj will stop on the first error it encounters. It will raise a `ConfigspecError`. This will have an `error` attribute, which is the actual error that was raised.

Behaviour when parsing a config file depends on the option `raise_errors`.
If ConfigObj encounters an error while parsing a config file:

If `raise_errors=True` then ConfigObj will raise the appropriate error and parsing will stop.

If `raise_errors=False` (the default) then parsing will continue to the end and *all* errors will be collected.

If `raise_errors` is False and multiple errors are found a `ConfigObjError` is raised. The error raised has a `config` attribute, which is the parts of the ConfigObj that parsed successfully. It also has an attribute `errors`, which is a list of *all* the errors raised. Each entry in the list is an instance of the appropriate error type. Each one has the following attributes (useful for delivering a sensible error message to your user):

* `line`: the original line that caused the error.

* `line_number`: its number in the config file.

* `message`: the error message that accompanied the error.

If only one error is found, then that error is re-raised. The error still has the `config` and `errors` attributes. This means that your error handling code can be the same whether one error is raised in parsing, or several.

It also means that in the most common case (a single error) a useful error message will be raised.

.. note::

One wrongly written line could break the basic structure of your config file. This could cause every line after it to flag an error, so having a list of all the lines that caused errors may not be as useful as it sounds.

Validation
==========

.. hint::

The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best reference is my article on ConfigObj:
Validation is done through a combination of the configspec and a `Validator` object. For this you need `validate.py` [1]. See downloading if you don't have a copy.

Validation can perform two different operations:

1) Check that a value meets a specification. For example, check that a value is an integer between one and six, or is a choice from a specific set of options.

2) It can convert the value into the type required. For example, if one of your values is a port number, validation will turn it into an integer for you.

So validation can act as a transparent layer between the datatypes of your application configuration (boolean, integers, floats, etc) and the text format of your config file.

**configspec**

The `validate` method checks members against an entry in the configspec. Your configspec therefore resembles your config file, with a check for every member.

In order to perform validation you need a `Validator` object. This has several useful built-in check functions. You can also create your own custom functions and register them with your Validator object.

Each check is the name of one of these functions, including any parameters and keyword arguments. The configspecs look like function calls, and they map to function calls.

The basic datatypes that an un-extended Validator can test for are:

* boolean values (True and False)
* integers (including minimum and maximum values)
* floats (including min and max)
* strings (including min and max length)
* IP addresses (v4 only)

It can also handle lists of these types and restrict a value to being one from a set of options.
An example configspec is going to look something like::

    port = integer(0, 100)
    user = string(max=25)
    mode = option('quiet', 'loud', 'silent')

You can specify default values, and also have the same configspec applied to several sections. This is called `repeated sections`_.

For full details on writing configspecs, please refer to the `validate.py documentation`_.

.. important::

    Your configspec is read by ConfigObj in the same way as a config file.

    That means you can do interpolation *within* your configspec.

    In order to allow this, checks in the 'DEFAULT' section (of the root level of your configspec) are *not* used.

    If you want to use a configspec *without* interpolation being done in it you can create your configspec manually and switch off interpolation:

    .. code-block:: python

        from configobj import ConfigObj

        configspec = ConfigObj(spec_filename, interpolation=False, list_values=False, _inspec=True)
        conf = ConfigObj(config_filename, configspec=configspec)

    If you need to specify the encoding of your configspec, then you can pass in a ConfigObj instance as your configspec. When you read your configspec file, you *must* specify ``list_values=False``. If you need to support hashes in configspec values then you must also pass in ``_inspec=True``.

    .. code-block:: python

        from configobj import ConfigObj
        configspec = ConfigObj(configspecfilename, encoding='UTF8',
                                list_values=False, _inspec=True)
        config = ConfigObj(filename, configspec=configspec)

    .. _validate.py documentation: http://www.voidspace.org.uk/python/validate.html

Type Conversion
By default, validation does type conversion. This means that if you specify `integer` as the check, then calling `validate_` will actually change the value to an integer (so long as the check succeeds).

It also means that when you call the `write_` method, the value will be converted back into a string using the `str` function.

To switch this off, and leave values as strings after validation, you need to set the `stringify_` attribute to `False`. If this is the case, attempting to set a value to a non-string will raise an error.

**Default Values**

You can set a default value in your check. If the value is missing from the config file then this value will be used instead. This means that your user only has to supply values that differ from the defaults.

If you *don't* supply a default then for a value to be missing is an error, and this will show in the `return value` from `validate`.

Additionally you can set the default to be `None`. This means the value will be set to `None` (the object) whichever check is used*. (It will be set to ``` rather than ``` if `stringify_` is ```). You can use this to easily implement optional values in your config files. ::

```python
code
port = integer(0, 100, default=80)
user = string(max=25, default=0)
mode = option('quiet', 'loud', 'silent', default='loud')
nick = string(default=None)
```

.. note::

Because the default goes through type conversion, it also has to pass the check.

Note that `default=None` is case sensitive.

**List Values**

It's possible that you will want to specify a list as a default value. To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This
makes checks look something like::

    checkname(default=list('val1', 'val2', 'val3'))

This works with all keyword arguments, but is most useful for default values.

Repeated Sections
------------------

Repeated sections are a way of specifying a configspec for a section that should be applied to all unspecified subsections in the same section.

The easiest way of explaining this is to give an example. Suppose you have a config file that describes a dog. That dog has various attributes, but it can also have many fleas. You don't know in advance how many fleas there will be, or what they will be called, but you want each flea validated against the same configspec.

We can define a section called *fleas*. We want every flea in that section (every sub-section) to have the same configspec applied to it. We do this by defining a single section called `__many__`. ::

    [dog]
    name = string(default=Rover)
    age = float(0, 99, default=0)

    [[fleas]]

        [[[[__many__]]]]
        bloodsucker = boolean(default=True)
        children = integer(default=10000)
        size = option(small, tiny, micro, default=tiny)

Every flea on our dog will now be validated using the `__many__` configspec.

`__many__` sections can have sub-sections, including their own `__many__` sub-sections. Defaults work in the normal way in repeated sections.

Repeated Values
-----------------

As well as using `__many__` to validate unspecified sections you can use it to validate values. For example, to specify that all values in a section should be integers::

    [section]
    __many__ = integer
If you want to use repeated values alongside repeated sections you can call one `__many__` and the other `___many___` (with three underscores).

Copy Mode
---------

Because you can specify default values in your configspec, you can use ConfigObj to write out default config files for your application.

However, normally values supplied from a default in a configspec are *not* written out by the `write` method.

To do this, you need to specify `copy=True` when you call validate. As well as not marking values as default, all the comments in the configspec file will be copied into your ConfigObj instance.

```python
from configobj import ConfigObj
from validate import Validator
vdt = Validator()
config = ConfigObj(configspec='default.ini')
config.filename = 'new_default.ini'
config.validate(vdt, copy=True)
config.write()
```

If you need to support hashes in the configspec values then you must create it with `__inspec=True`. This has the side effect of switching off the parsing of inline comments, meaning that they won't be copied into the new config file. (ConfigObj syntax is slightly different from configspec syntax and the parser can't support both inline comments and hashes in configspec values.)

Validation and Interpolation
----------------------------

String interpolation and validation don't play well together. When validation changes type it sets the value. If the value uses interpolation, then the interpolation reference would normally be overwritten. Calling `write` would then use the absolute value and the interpolation reference would be lost.

As a compromise - if the value is unchanged by validation then it is not reset. This means strings that pass through validation unmodified will not be overwritten. If validation changes type - the value has to be overwritten, and any interpolation references are lost.
Extra Values
-----------

After validation the `extra_values` member of every section that is listed in the configspec will be populated with the names of members that are in the config file but not in the configspec.

If you are reporting configuration errors to your user this information can be useful, for example some missing entries may be due to misspelt entries that appear as extra values.

See the `get_extra_values_` function

New in ConfigObj 4.7.0.

SimpleVal
---------

You may not need a full validation process, but still want to check if all the expected values are present.

Provided as part of the ConfigObj module is the `SimpleVal` object. This has a dummy `test` method that always passes.

The only reason a test will fail is if the value is missing. The return value from `validate` will either be `True`, meaning all present, or a dictionary with `False` for all missing values/sections.

To use it, you still need to pass in a valid configspec when you create the ConfigObj, but just set all the values to `''`. Then create an instance of `SimpleVal` and pass it to the `validate` method.

As a trivial example if you had the following config file:

```python
# config file for an application
port = 80
protocol = http
domain = voidspace
top_level_domain = org.uk
```

You would write the following configspec:

```python
port = "
protocol = "
```
domain = "
top_level_domain = "

.. code-block:: python

    config = ConfigObj(filename, configspec=configspec)
    val = SimpleVal()
    test = config.validate(val)
    if test == True:
        print 'All values present.'
    elif test == False:
        print 'No values present!'
    else:
        for entry in test:
            if test[entry] == False:
                print '%%s missing.' % entry

Empty values
============

Many config files from other applications allow empty values. As of version 4.3.0, ConfigObj will read these as an empty string.

A new option/attribute has been added (`write_empty_values`) to allow ConfigObj to write empty strings as empty values.

.. code-block:: python

    from configobj import ConfigObj
    cfg = "
    key =
    key2 = # a comment
    ".splitlines()
    config = ConfigObj(cfg)
    print config

    ConfigObj({'key': '', 'key2': ''})

    config.write_empty_values = True
    for line in config.write():
        print line

    key =
    key2 =    # a comment

unrepr mode
The ``unrepr`` option allows you to store and retrieve the basic Python data-types using config files. It has to use a slightly different syntax to normal ConfigObj files. Unsurprisingly it uses Python syntax.

This means that lists are different (they are surrounded by square brackets), and strings *must* be quoted.

The types that ``unrepr`` can work with are:

- strings, lists tuples
- None, True, False
- dictionaries, integers, floats
- longs and complex numbers

You can't store classes, types or instances.

``unrepr`` uses ``repr(object)`` to write out values, so it currently *doesn't* check that you are writing valid objects. If you attempt to read an unsupported value, ConfigObj will raise a ``configobj.UnknownType`` exception.

Values that are triple quoted cased. The triple quotes are removed *before* converting. This means that you can use triple quotes to write dictionaries over several lines in your config files. They won't be written like this though.

If you are writing config files by hand, for use with ``unrepr``, you should be aware of the following differences from normal ConfigObj syntax:

- List : ```['A List', 'With', 'Strings']```
- Strings : ````Must be quoted.````
- Backslash : ````The backslash must be escaped \

These all follow normal Python syntax.

In unrepr mode *inline comments* are not saved. This is because lines are parsed using the `compiler package`<http://docs.python.org/lib/compiler.html>_ which discards comments.

String Interpolation

```
.. note::

String interpolation can slow down (slightly) the fetching of values from your config object. If you aren't using interpolation and it
is performance critical then create your instance with
``interpolation=False``.

ConfigObj allows string interpolation *similar* to the way ``ConfigParser``
or ``string.Template`` work. The value of the ``interpolation`` attribute
determines which style of interpolation you want to use. Valid values are
``ConfigParser`` or "Template" (case-insensitive, so "configparser" and
"template" will also work). For backwards compatibility reasons, the value
``True`` is also a valid value for the ``interpolation`` attribute, and
will select `ConfigParser`-style interpolation. At some undetermined point
in the future, that default *may* change to `Template`-style interpolation.

For `ConfigParser`-style interpolation, you specify a value to be
substituted by including `%(name)s` in the value.

For `Template`-style interpolation, you specify a value to be substituted
by including `$(cl)name$(cr)` in the value. Alternately, if `name` is a valid
Python identifier (i.e., is composed of nothing but alphanumeric characters,
plus the underscore character), then the braces are optional and the value
can be written as `$name`.

Note that `ConfigParser`-style interpolation and `Template`-style
interpolation are mutually exclusive; you cannot have a configuration file
that's a mix of one or the other. Pick one and stick to it. `Template`-style
interpolation is simpler to read and write by hand, and is recommended if
you don't have a particular reason to use `ConfigParser`-style.

Interpolation checks first the current section to see if `name` is the key
to a value. (name is case sensitive).

If it doesn't find it, next it checks the 'DEFAULT' sub-section of the current
section.

If it still doesn't find it, it moves on to check the parent section and the
parent section's 'DEFAULT' subsection, and so on all the way up to the main
section.

If the value specified isn't found in any of these locations, then a
``MissingInterpolationOption`` error is raised (a subclass of
``ConfigObjError``).

If it is found then the returned value is also checked for substitutions. This
allows you to make up compound values (for example directory paths) that use
more than one default value. It also means it's possible to create circular
references. If there are any circular references which would cause an infinite
interpolation loop, an ``InterpolationLoopError`` is raised.

Both of these errors are subclasses of `InterpolationError`, which is a
String interpolation and validation don't play well together. This is because validation overwrites values - and so may erase the interpolation references. See `Validation and Interpolation`_. (This can only happen if validation has to *change* the value).

New in ConfigObj 4.7.0: String interpolation is now done in members of list values.

String Interpolation and List Values
------------------------------------

Since version 4.7 string interpolation is done on string members of list values. If interpolation changes any members of the list then what you get back is a *copy* of the list rather than the original list.

This makes fetching list values slightly slower when interpolation is on, it also means that if you mutate the list changes won't be reflected in the original list:

```python
>>> c = ConfigObj()
>>> c['foo'] = 'boo'
>>> c['bar'] = ['%(foo)s']
>>> c['bar']
['boo']
>>> c['bar'].append('fish')
>>> c['bar']
['boo']
```

Instead of mutating the list you must create a new list and reassign it.

Comments
========

Any line that starts with a '#', possibly preceded by whitespace, is a comment.

If a config file starts with comments then these are preserved as the `initial_comment_`.

If a config file ends with comments then these are preserved as the `final_comment_`.

Every key or section marker may have lines of comments immediately above it.
These are saved as the "comments" attribute of the section. Each member is a list of lines.

You can also have a comment inline with a value. These are saved as the "inline_comments" attribute of the section, with one entry per member of the section.

Subsections (section markers in the config file) can also have comments.

See `Section Attributes`_ for more on these attributes.

These comments are all written back out by the "write" method.

```python
flatten_errors
```

.. code-block:: python

    flatten_errors(cfg, res)

Validation_ is a powerful way of checking that the values supplied by the user make sense.

The validate_ method returns a results dictionary that represents pass or fail for each value. This doesn't give you any information about *why* the check failed.

``flatten_errors`` is an example function that turns a results dictionary into a flat list, that only contains values that *failed*.

``cfg`` is the ConfigObj instance being checked, ``res`` is the results dictionary returned by "validate".

It returns a list of keys that failed. Each member of the list is a tuple:

    ([list of sections...], key, result)

If "validate" was called with "preserve_errors=False" (the default) then "result" will always be "False".

*list of sections* is a flattened list of sections that the key was found in.

If the section was missing then key will be "None".

If the value (or section) was missing then "result" will be "False".
If ``validate`` was called with ``preserve_errors=True`` and a value was present, but failed the check, then ``result`` will be the exception object returned. You can use this as a string that describes the failure.

For example:

*The value "3" is of the wrong type*.

Example Usage
-------------

The output from ``flatten_errors`` is a list of tuples.

Here is an example of how you could present this information to the user.

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

    vtor = validate.Validator()
    # ini is your config file - cs is the configspec
    cfg = ConfigObj(ini, configspec=cs)
    res = cfg.validate(vtor, preserve_errors=True)
    for entry in flatten_errors(cfg, res):
        # each entry is a tuple
        section_list, key, error = entry
        if key is not None:
            section_list.append(key)
        else:
            section_list.append('[missing section]
        section_string = ', ','.join(section_list)
        if error == False:
            error = 'Missing value or section.'
        print section_string, ' = ', error
```

get_extra_values
================

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

    get_extra_values(conf)
```

New in ConfigObj 4.7.0.

Find all the values and sections not in the configspec from a validated ConfigObj.
`get_extra_values` returns a list of tuples where each tuple represents either an extra section, or an extra value.

The tuples contain two values, a tuple representing the section the value is in and the name of the extra values. For extra values in the top level section the first member will be an empty tuple. For values in the 'foo' section the first member will be `(('foo',))`. For members in the 'bar' subsection of the 'foo' section the first member will be `(('foo', 'bar'))`.

Extra sections will only have one entry. Values and subsections inside an extra section aren't listed separately.

NOTE: If you call `get_extra_values` on a ConfigObj instance that hasn't been validated it will return an empty list.

Example Usage
-------------

The output from `get_extra_values` is a list of tuples.

Here is an example of how you could present this information to the user.

```python
vtor = validate.Validator()
# ini is your config file - cs is the configspec
cfg = ConfigObj(ini, configspec=cs)
cfg.validate(vtor, preserve_errors=True)

for sections, name in get_extra_values(cfg):
    # this code gets the extra values themselves
    the_section = cfg
    for section in sections:
        the_section = cfg[section]
    # the_value may be a section or a value
    the_value = the_section[name]

    section_or_value = 'value
    if isinstance(the_value, dict):
        # Sections are subclasses of dict
        section_or_value = 'section'

    section_string = ', '.join(sections) or "top level"
    print 'Extra entry in section: %s. Entry %r is a %s' % (section_string, name, section_or_value)
```
CREDITS
=======

ConfigObj 4 is written by (and copyright) `Michael Foord`_, `Nicola Larosa`_.

Particularly thanks to Nicola Larosa for help on the config file spec, the validation system and the doctests.

*validate.py* was originally written by Michael Foord and Mark Andrews.

Thanks to many others for input, patches and bugfixes.

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=======

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Of course if it does, let us know and we'll fix the problem so it doesn't happen to anyone else:

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TODO
=====

Better support for configuration from multiple files, including tracking *where* the original file came from and writing changes to the correct file.

Make ``newline`` a keyword argument (as well as an attribute) ?

``UTF16`` encoded files, when returned as a list of lines, will have the BOM at the start of every line. Should this be removed from all but the first line ?

Option to set warning type for unicode decode ? (Defaults to strict).

A method to optionally remove uniform indentation from multiline values. (do as an example of using ``walk`` - along with string-escape)

Should the results dictionary from validate be an ordered dictionary if `odict <http://www.voidspace.org.uk/python/odict.html>`_ is available ?

Implement some of the sequence methods (which include slicing) from the newer `odict` ?

Preserve line numbers of values (and possibly the original text of each value).

ISSUES
======

.. note::

Open Source Used In OnPrem2.1 2.2 4264
Please file any bug reports to `Michael Foord`_ or the **ConfigObj**
`Mailing List`_.

There is currently no way to specify the encoding of a configspec file.

As a consequence of the changes to configspec handling in version 4.6.0, when
you create a ConfigObj instance and provide a configspec, the configspec
attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the
configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in
configspecs. This will only affect you if you are using ``copy=True` when validating and expecting inline
comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as
usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines)
then you should pass in ```_inspec=True``` to the constructor to allow hashes in values. This is the magic that switches
off inline comment parsing.

When using ``copy`` mode for validation, it won't copy ``DEFAULT` sections. This is so that you *can* use interpolation in configspec
files. This is probably true even if interpolation is off in the
configspec.

You can't have a keyword with the same name as a section (in the same
section). They are both dictionary keys - so they would overlap.

ConfigObj doesn't quote and unquote values if ```list_values=False```. 
This means that leading or trailing whitespace in values will be lost when
writing. (Unless you manually quote).

Interpolation checks first the current section, then the 'DEFAULT' subsection
of the current section, before moving on to the current section's parent and
so on up the tree.

Does it matter that we don't support the `:` divider, which is supported
by ```ConfigParser``` ?

String interpolation and validation don't play well together. When
validation changes type it sets the value. This will correctly fetch the
value using interpolation - but then overwrite the interpolation reference.
If the value is unchanged by validation (it's a string) - but other types
will be.

**CHANGELOG**

==========
This is an abbreviated changelog showing the major releases up to version 4. From version 4 it lists all releases and changes.

2010/02/27 - Version 4.7.2
--------------------------

* BUGFIX: Restore Python 2.3 compatibility
* BUGFIX: Members that were lists were being returned as copies due to interpolation introduced in 4.7. Lists are now only copies if interpolation changes a list member.
* BUGFIX: `pop` now does interpolation in list values as well.
* BUGFIX: where interpolation matches a section name rather than a value it is ignored instead of raising an exception on fetching the item.
* BUGFIX: values that use interpolation to reference members that don't exist can now be repr'd.
* BUGFIX: Fix to avoid writing `
\r\n\n` on Windows when given a file opened in text write mode (`'w'`).

See `String Interpolation and List Values`_ for information about the problem with lists and interpolation.

2010/02/06 - Version 4.7.1
--------------------------

* Fix bug in options deprecation warning added in 4.7.0

2010/01/09 - Version 4.7.0
--------------------------

* Minimum supported version of Python is now 2.3
* ~25% performance improvement thanks to Christian Heimes
* String interpolation now works in list value members
* After validation any additional entries not in the configspec are listed in the ``extra_values`` section member
* Addition of the ``get_extra_values`` function for finding all extra values in a validated ConfigObj instance
* Deprecated the use of the `options` dictionary in the ConfigObj constructor and added explicit keyword arguments instead. Use `*\*options` if you want to initialise a ConfigObj instance from a dictionary
* Constructing a ConfigObj from an existing ConfigObj instance now preserves the order of values and sections from the original instance in the new one
* BUGFIX: Checks that failed validation would not populate `default_values` and `restore_default_value()` wouldn't work for those entries
* BUGFIX: `clear()` now clears 'defaults'
* BUGFIX: empty values in list values were accidentally valid syntax. They now raise a `ParseException`. e.g. "value = 1, , 2"
* BUGFIX: Change to the result of a call to `%validate` when `%preserve_errors` is True. Previously sections where *all* values failed validation would return False for the section rather than preserving the errors. False will now only be returned for a section if it is missing
* Distribution includes version 1.0.1 of validate.py
* Removed __revision__ and __docformat__

2009/04/13 - Version 4.6.0
--------------------------
* Pickling of ConfigObj instances now supported (thanks to Christian Heimes)
* Hashes in configspects are now allowed (see note below)
* Replaced use of hasattr (which can swallow exceptions) with getattr
* __many__ in configspects can refer to scalars (ordinary values) as well as sections
* You can use ___many___ (three underscores!) where you want to use __many__ as well
* You can now have normal sections inside configspect sections that use __many__
* You can now create an empty ConfigObj with a configspect, programmatically set values and then validate
* A section that was supplied as a value (or vice-versa) in the actual config file would cause an exception during validation (the config file is still broken of course, but it is now handled gracefully)
* Added `as_list` method
* Removed the deprecated `istrue`, `encode` and `decode` methods
* Running test_configobj.py now also runs the doctests in the configobj module

As a consequence of the changes to configspect handling, when you create a ConfigObj instance and provide a configspect, the configspect attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspect attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspects I had to turn off the parsing of inline comments in configspects. This will only affect you if you are using `copy=True` when validating and expecting inline comments to be copied from the configspect into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspect by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `__inspec=True` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

2008/06/27 - Version 4.5.3
--------------------------
* BUGFIX: fixed a problem with `copy=True` when validating with configspects that use `__many__` sections.

2008/02/05 - Version 4.5.2
--------------------------
Distribution updated to include version 0.3.2 of validate_. This means that "None" as a default value in configspecs works.

2008/02/05 - Version 4.5.1
--------------------------

Distribution updated to include version 0.3.1 of validate_. This means that Unicode configspecs now work.

2008/02/05 - Version 4.5.0
--------------------------

ConfigObj will now guarantee that files will be written terminated with a newline.

ConfigObj will no longer attempt to import the "validate" module, until/unless you call `ConfigObj.validate` with "preserve_errors=True". This makes it faster to import.

New methods `restore_default` and `restore_defaults`. `restore_default` resets an entry to its default value (and returns that value). `restore_defaults` resets all entries to their default value. It doesn't modify entries without a default value. You must have validated a ConfigObj (which populates the `default_values` dictionary) before calling these methods.

BUGFIX: Proper quoting of keys, values and list values that contain hashes (when writing). When `list_values=False`, values containing hashes are triple quoted.

Added the `reload` method. This reloads a ConfigObj from file. If the filename attribute is not set then a `ReloadError` (a new exception inheriting from `IOError`) is raised.

BUGFIX: Files are read in with 'rb' mode, so that native/non-native line endings work!

Minor efficiency improvement in `unrepr` mode.

Added missing docstrings for some overridden dictionary methods.

Added the `reset` method. This restores a ConfigObj to a freshly created state.

Removed old CHANGELOG file.

2007/02/04 - Version 4.4.0
Official release of 4.4.0

2006/12/17 - Version 4.3.3-alpha4

By Nicola Larosa

Allowed arbitrary indentation in the `indent_type` parameter, removed the `NUM_INDENT_SPACES` and `MAX_INTERPOL_DEPTH` (a leftover) constants, added indentation tests (including another docutils workaround, sigh), updated the documentation.

By Michael Foord

Made the import of `compiler` conditional so that `ConfigObj` can be used with `IronPython <http://www.codeplex.com/IronPython>`_.

2006/12/17 - Version 4.3.3-alpha3

By Nicola Larosa

Added a missing `self` in the _handle_comment method and a related test, per Sourceforge bug #1523975.

2006/12/09 - Version 4.3.3-alpha2

By Nicola Larosa

Changed interpolation search strategy, based on this patch by Robin Munn: http://sourceforge.net/mailarchive/message.php?msg_id=17125993

2006/12/09 - Version 4.3.3-alpha1

By Nicola Larosa

Added Template-style interpolation, with tests, based on this patch by Robin Munn: http://sourceforge.net/mailarchive/message.php?msg_id=17125991 (awful archives, bad Sourceforge, bad).
2006/06/04 - Version 4.3.2

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

Changed error handling, if parsing finds a single error then that error will
be re-raised. That error will still have an ``errors`` and a ``config``
attribute.

Fixed bug where \n terminated files could be truncated.

Bugfix in ``unrepr`` mode, it couldn't handle # in values. (Thanks to
Philippe Normand for the report.)

As a consequence of this fix, ConfigObj doesn't now keep inline comments in
``unrepr`` mode. This is because the parser in the `compiler package`_
doesn't keep comments.

Error messages are now more useful. They tell you the number of parsing errors
and the line number of the first error. (In the case of multiple errors.)

Line numbers in exceptions now start at 1, not 0.

Errors in ``unrepr`` mode are now handled the same way as in the normal mode.
The errors stored will be an ``UnreprError``.

2006/04/29 - Version 4.3.1

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

Added ``validate.py`` back into ``configobj.zip``. (Thanks to Stewart
Midwinter)

Updated to `validate.py`_ 0.2.2.

Preserve tuples when calling the ``dict`` method. (Thanks to Gustavo Niemeyer.)

Changed ``__repr__`` to return a string that contains ``ConfigObj({ ... })``.

Change so that an options dictionary isn't modified by passing it to ConfigObj.
(Thanks to Artarious.)

Added ability to handle negative integers in ``unrepr``. (Thanks to Kevin
Dangoor.)

2006/03/24 - Version 4.3.0

--------------------------
Moved the tests and the CHANGELOG (etc) into a separate file. This has reduced the size of `configobj.py` by about 40%.

Added the `unrepr` mode to reading and writing config files. Thanks to Kevin Dangoor for this suggestion.

Empty values are now valid syntax. They are read as an empty string `''`. (`key ='', or `key = # comment``.)

`validate` now honours the order of the configspec.

Added the `copy` mode to validate. Thanks to Louis Cordier for this suggestion.

Fixed bug where files written on windows could be given `\r\n` line terminators.

Fixed bug where last occurring comment line could be interpreted as the final comment if the last line isn't terminated.

Fixed bug where nested list values would be flattened when `write` is called. Now sub-lists have a string representation written instead.

Deprecated `encode` and `decode` methods instead.

You can now pass in a ConfigObj instance as a configspec (remember to read the configspec file using `list_values=False`).

Sorted footnotes in the docs.

2006/02/16 - Version 4.2.0
--------------------------

Removed `BOM_UTF8` from `__all__`.

The `BOM` attribute has become a boolean. (Defaults to `False`). It is *only* `True` for the `UTF16/UTF8` encodings.

File like objects no longer need a `seek` attribute.

Full unicode support added. New options/attributes `encoding`, `default_encoding`.

ConfigObj no longer keeps a reference to file like objects. Instead the `write` method takes a file like object as an optional argument. (Which will be used in preference of the `filename` attribute if that exists as well.)
utf16 files decoded to unicode.

If `"BOM"` is `"True"`, but no encoding specified, then the utf8 BOM is written out at the start of the file. (It will normally only be `"True"` if the utf8 BOM was found when the file was read.)

Thanks to Aaron Bentley for help and testing on the unicode issues.

File paths are *not* converted to absolute paths, relative paths will remain relative as the `"filename"` attribute.

Fixed bug where `"final_comment"` wasn't returned if `"write"` is returning a list of lines.

Deprecated `"istrue"`, replaced it with `"as_bool"`.

Added `"as_int"` and `"as_float"`.

2005/12/14 - Version 4.1.0
--------------------------

Added `"merge"`, a recursive update.

Added `"preserve_errors"` to `"validate"` and the `"flatten_errors"` example function.

Thanks to Matthew Brett for suggestions and helping me iron out bugs.

Fixed bug where a config file is *all* comment, the comment will now be `"initial_comment"` rather than `"final_comment"`.

Validation no longer done on the 'DEFAULT' section (only in the root level). This allows interpolation in configspecs.

Also use the new list syntax in validate_ 0.2.1. (For configspecs).

2005/12/02 - Version 4.0.2
--------------------------

Fixed bug in `"create_empty"`. Thanks to Paul Jimenez for the report.

2005/11/05 - Version 4.0.1
--------------------------
Fixed bug in "Section.walk" when transforming names as well as values.

Added the "istrue" method. (Fetches the boolean equivalent of a string value).

Fixed "list_values=False" - they are now only quoted/unquoted if they are multiline values.

List values are written as "item, item" rather than "item,item".

2005/10/17 - Version 4.0.0

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

**ConfigObj 4.0.0 Final**

Fixed bug in "setdefault". When creating a new section with setdefault the reference returned would be to the dictionary passed in *not* to the new section. Bug fixed and behaviour documented.

Obscure typo/bug fixed in "write". Wouldn't have affected anyone though.

2005/09/09 - Version 4.0.0 beta 5

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

Removed "`PositionError`".

Allowed quotes around keys as documented.

Fixed bug with commas in comments. (matched as a list value)

2005/09/07 - Version 4.0.0 beta 4

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

Fixed bug in "`__delitem__`". Deleting an item no longer deletes the "`inline_comments`" attribute.

Fixed bug in initialising ConfigObj from a ConfigObj.

Changed the mailing list address.

2005/08/28 - Version 4.0.0 beta 3

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

Interpolation is switched off before writing out files.
Fixed bug in handling `StringIO` instances. (Thanks to report from Gustavo Niemeyer.)

Moved the doctests from the `__init__` method to a separate function. (For the sake of IDE calltips).

2005/08/25 - Version 4.0.0 beta 2
-----------------------------

Amendments to *validate.py*.

First public release.

2005/08/21 - Version 4.0.0 beta 1
-------------------------------

Reads nested subsections to any depth.

Multiline values.

Simplified options and methods.

New list syntax.

Faster, smaller, and better parser.

Validation greatly improved. Includes:

* type conversion
* default values
* repeated sections

Improved error handling.

Plus lots of other improvements.

2004/05/24 - Version 3.0.0
------------------------

Several incompatible changes: another major overhaul and change. (Lots of improvements though).

Added support for standard config files with sections. This has an entirely new interface: each section is a dictionary of values.
Changed the update method to be called writein: update clashes with a dict method.

Made various attributes keyword arguments, added several.

Configspecs and orderlists have changed a great deal.

Removed support for adding dictionaries: use update instead.

Now subclasses a new class called caselessDict. This should add various dictionary methods that could have caused errors before.

It also preserves the original casing of keywords when writing them back out.

Comments are also saved using a `caselessDict`.

Using a non-string key will now raise a `TypeError` rather than converting the key.

Added an exceptions keyword for *much* better handling of errors.

Made `createempty=False` the default.

Now checks indict *and* any keyword args. Keyword args take precedence over indict.

```
`, `. , `=` , `\n` are now all valid dividers where the keyword is unquoted.
```

ConfigObj now does no type checking against configspec when you set items.

delete and add methods removed (they were unnecessary).

Docs rewritten to include all this gumph and more; actually ConfigObj is *really* easy to use.

Support for stdout was removed.

A few new methods added.

Charmap is now incorporated into ConfigObj.

2004/03/14 - Version 2.0.0 beta

Re-written it to subclass dict. My first forays into inheritance and operator
overloading.

The config object now behaves like a dictionary.

I've completely broken the interface, but I don't think anyone was really using it anyway.

This new version is much more 'classy'.

It will also read straight from/to a filename and completely parse a config file without you *having* to supply a config spec.

Uses listparse, so can handle nested list items as values.

No longer has getval and setval methods: use normal dictionary methods, or add and delete.

2004/01/29 - Version 1.0.5
--------------------------

Version 1.0.5 has a couple of bugfixes as well as a couple of useful additions over previous versions.

Since 1.0.0 the buildconfig function has been moved into this distribution, and the methods reset, verify, getval and setval have been added.

A couple of bugs have been fixed.

Origins
-------

ConfigObj originated in a set of functions for reading config files in the `atlantibots <http://www.voidspace.org.uk/atlantibots/>`_ project. The original functions were written by Rob McNeur.

Footnotes
=========

.. [#] And if you discover any bugs, let us know. We'll fix them quickly.

.. [#] If you specify a filename that doesn't exist, ConfigObj will assume you are creating a new one. See the *create_empty* and *file_error* options.
They can be byte strings (*ordinary* strings) or Unicode.

Except we don't support the RFC822 style line continuations, nor `:` as a divider.

This is a change in ConfigObj 4.2.0. Note that ConfigObj doesn't call the seek method of any file like object you pass in. You may want to call `file_object.seek(0)` yourself, first.

A side effect of this is that it enables you to copy a ConfigObj:

```
# only copies members
# not attributes/comments
config2 = ConfigObj(config1)
```

Since ConfigObj 4.7.0 the order of members and sections will be preserved when copying a ConfigObj instance.

Other than lists of strings.

The exception is if it detects a `UTF16` encoded file which it must decode before parsing.

The method signature shows that this method takes two arguments. The second is the section to be written. This is because the `write` method is called recursively.

The dict method doesn't actually use the deepcopy mechanism. This means if you add nested lists (etc) to your ConfigObj, then the dictionary returned by dict may contain some references. For all *normal* ConfigObjs it will return a deepcopy.

Passing `"(section, key)` rather than `"(value, key)` allows you to change the value by setting `"section[key] = newval"`. It also gives you access to the *rename* method of the section.

Minimum required version of *validate.py* 0.2.0.

_listquote: http://www.voidspace.org.uk/python/modules.shtml#listquote
_Nicola Larosa: http://www.teknico.net

Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfh5Es8B/configobj-4.7.2/docs/configobj.txt
No license file was found, but licenses were detected in source scan.

```xml
<tr class="field"><th class="docinfo-name">License:</th><td class="field-body"><a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></td>
<p>ConfigObj, and related files, are licensed under the BSD license. This is a All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are
* 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
* Neither the name of Michael Foord nor Nicola Larosa software without specific prior written permission.
You should also be able to find a copy of this license at : <a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></p>
</p>
```

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

```
/*
:Authors: Ian Bicking, Michael Foord
:Contact: fuzzyman@voidspace.org.uk
:Date: 2005/08/26
:Version: 0.1.0
:Copyright: This stylesheet has been placed in the public domain.
Stylesheet for Docutils.
Based on `blue_box.css` by Ian Bicking
and `default.css` revision 3442
*/
```

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

```
/*
:Author: David Goodger (goodger@python.org)
:Id: $Id: html4css1.css 5951 2009-05-18 18:03:10Z milde$
:Copyright: This stylesheet has been placed in the public domain.

Default cascading style sheet for the HTML output of Docutils.

See http://docutils.sf.net/docs/howto/html-stylesheets.html for how to
```
customize this style sheet.

/*

Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhsEs8B/configobj-4.7.2/docs/default.css
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/python-configobj.spec
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Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhsEs8B/configobj-4.7.2/setup.py
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhsEs8B/configobj-4.7.2/validate.py
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Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhsEs8B/configobj-4.7.2/configobj.py
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhsEs8B/configobj-4.7.2/tests/test_configobj.py

1.352 libidl 0.8.14 8.el7

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

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1.353 vijava 5.1
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2j.com/vmware/vim25/mo/samples/lic/PrintLicensejava/lang/Object<init>()VCode
LineNumberTableLocalVariableTablethis.Lcom/vmware/vim25/mo/samples/lic/PrintLicense;main([Ljava/lang/String;)V
Exceptionsjava/lang/Exceptionjava/lang/SystemoutLjava/io/PrintStream;4Usage: java PrintLicense <url> <username> <password>
java/io/PrintStream println(Ljava/lang/String;)V"#com/vmware/vim25/mo/ServiceInstance$java/net/URL
License Features:

License Usage:

License source availability:

StackMapTableFeature:

Feature key:

License source available:

License from server:

License Key:

FeatureName:
package com.vmware.vim25;
import java.util.Calendar;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class ExpiredFeatureLicense extends NotEnoughLicenses {
    public String feature;
    public int count;
    public Calendar expirationDate;

    public String getFeature() {
        return this.feature;
    }

    public int getCount() {
        return this.count;
    }

    public Calendar getExpirationDate() {
        return this.expirationDate;
    }

    public void setFeature(String feature) {
        this.feature=feature;
    }

    public void setCount(int count) {
        this.count=count;
    }

    public void setExpirationDate(Calendar expirationDate) {
        this.expirationDate=expirationDate;
    }
}
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================================================================================*/

package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@ SuppressWarnings("all")
public class ExpiredAddonLicense extends ExpiredFeatureLicense {
}

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Open Source Used In OnPrem2.1 2.2  4294
package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@ SuppressWarnings("all")
public class NotEnoughLicenses extends RuntimeFault {
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class ExpiredEditionLicense extends ExpiredFeatureLicense {...
setFeature(Ljava/lang/String;)V
setCount(I)V
setExpirationDate(Ljava/util/Calendar;)V
SourceFileExpiredFeatureLicense.java!

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class VmLimitLicense extends NotEnoughLicenses {
    public int limit;

    public int getLimit() {
        return this.limit;
    }

    public void setLimit(int limit) {
        this.limit=limit;
    }
}

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================================================================================*/

package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@ SuppressWarnings("all")
public class InvalidLicense extends VimFault {

    public String licenseContent;

    public String getLicenseContent() {
        return this.licenseContent;
    }

    public void setLicenseContent(String licenseContent) {
        this.licenseContent=licenseContent;
    }

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 * @version 5.1
 */

@SuppressWarnings("all")
public class VramLimitLicense extends NotEnoughLicenses {
    public int limit;

    public int getLimit() {
        return this.limit;
    }

    public void setLimit(int limit) {
        this.limit=limit;
    }
}

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================================================================================*/

package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class Permission extends DynamicData {
    public ManagedObjectReference entity;
    public String principal;
    public boolean group;
    public int roleId;
    public boolean propagate;

    public ManagedObjectReference getEntity() {
        return this.entity;
    }

    public String getPrincipal() {
        return this.principal;
    }

    public boolean isGroup() {
return this.group;
}

public int getRoleId() {
    return this.roleId;
}

public boolean isPropagate() {
    return this.propagate;
}

public void setEntity(ManagedObjectReference entity) {
    this.entity=entity;
}

public void setPrincipal(String principal) {
    this.principal=principal;
}

public void setGroup(boolean group) {
    this.group=group;
}

public void setRoleId(int roleId) {
    this.roleId=roleId;
}

public void setPropagate(boolean propagate) {
    this.propagate=propagate;
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class InvalidEditionLicense extends NotEnoughLicenses {
    public String feature;

    public String getFeature() {
        return this.feature;
    }

    public void setFeature(String feature) {
        this.feature = feature;
    }
}

SourceFilePermission.java!
1.354 plexus-interpolation 1.21

1.355 spring-jdbc 3.0.7.RELEASE
1.355.1 Available under license:

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* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
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* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
  jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java

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/
jaro/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/support/MetaDataAccessException.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/support/lob/LobCreatorUtils.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/core/SqlReturnResultSet.java

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* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/core/PreparedStatementCreator.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/core/SqlProvider.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/jaro/springframework/jdbc/support/DatabaseMetaDataCallback.java

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* distributed under the License is distributed on an "AS IS" BASIS,
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* limitations under the License.
*/
/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

Found in path(s):
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/support/lob/LobCreator.java

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* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/datasource/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
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* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/org/springframework/jdbc/datasource/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java

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jar/org/springframework/jdbc/core/StatementCallback.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectPostgreSQLSequenceMaxValueIncrementer.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectH2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectIncorrectResultSetColumnCountException.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectPreparedStatementCreatorFactory.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectDriverManagerDataSource.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectSqlFunction.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectGeneratedKeyHolder.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectBatchUpdateUtils.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-
jar/org/springframework/jdbc/core/ObjectSqlTypeValue.java

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
/**
 * {@link LobHandler} implementation for Oracle databases. Uses proprietary API
 * to create <code>oracle.sql.BLOB</code> and <code>oracle.sql.CLOB</code>
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * <p>While most databases are able to work with [@link DefaultLobHandler],
 * Oracle just accepts Blob/Clob instances created via its own proprietary
 * BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need
 * to use a strategy like this LobHandler implementation.
 *
 * <p>Needs to work on a native JDBC Connection, to be able to cast it to
 * <code>oracle.jdbc.OracleConnection</code>. If you pass in Connections from a
 * connection pool (the usual case in a J2EE environment), you need to set an
 * appropriate [@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]
 * to allow for automatical retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 *
 * <p>Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
As this LobHandler initializes Oracle classes on instantiation, do not define this as eager-initializing singleton if you do not want to depend on the Oracle JAR being in the class path: use "lazy-init=true" to avoid this issue.

* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see #setNativeJdbcExtractor
* @see oracle.sql.BLOB
* @see oracle.sql.CLOB
*/

Found in path(s):
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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* limitations under the License.
*/
/**
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle's peculiar handling of LOBs in
* { @link OracleLobHandler}; most other databases should be able to work
* with the provided { @link DefaultLobHandler}.
* *
* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
* *
* <p>Most databases/drivers should be able to work with { @link DefaultLobHandler},
* which by default delegates to JDBC's direct accessor methods, avoiding the
* <code>java.sql.Blob</code> and <code>java.sql.Clob</code> API completely.
* {@link DefaultLobHandler} can also be configured to access LOBs using
* `<code>PreparedStatement.setBlob/setClob</code>` (e.g. for PostgreSQL), through
* setting the `{@link DefaultLobHandler#setWrapAsLob "wrapAsLob"}` property.
*
* Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* `PreparedStatement`'s corresponding setter methods. Therefore, you need to use
* `{@link OracleLobHandler}` there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g JDBC driver should basically work with
* `{@link DefaultLobHandler}` as well, with some limitations in terms of LOB sizes.
*
* Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
*
* Summarizing the recommended options (for actual LOB fields):
*<ul>
*<li>For JDBC 4.0 driver: `{@link DefaultLobHandler}` with `<code>streamAsLob=true</code>`.
*<li>For PostgreSQL: `{@link DefaultLobHandler}` with `<code>wrapAsLob=true</code>`.
*<li>For Oracle 9i/10g: `{@link OracleLobHandler}` with a connection-pool-specific
* `NativeJdbcExtractor`.
*<li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): a plain `{@link DefaultLobHandler}`.
*</ul>

* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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/opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
/opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/support/ArgPreparedStatementSetter.java
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jar/org/springframework/jdbc/core/ArgTypePreparedStatementSetter.java
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* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /opt/cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources.jar/org/springframework/jdbc/support/TableParameterMetaData.java
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/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/

/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never <code>null</code>)
*/
The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/final blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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/**
 * Strategy interface for translating between [SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [DataAccessException]
 * hierarchy.
 *
 * Implementations can be generic (for example, using
 * [JDBC SQLState] codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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* /opt/ cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/ cola/permits/1150871887_1617712729.59/0/spring-jdbc-3-0-7-release-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
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1.357 netty-handler 4.0.33.Final

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// Try the OpenJDK's proprietary implementation.

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  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1111264563_1606892127.15/0/netty-handler-4-0-33-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
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  jar/io/netty/handler/ssl/SslContextBuilder.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1111264563_1606892127.15/0/netty-handler-4-0-33-final-sources-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
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1.360 ehcache 2.6.6

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```
---
layout: about_page
title: License
visible_title: "Ehcache Licensing"
active_sub_menu_id: ehc_mnu_about_license
---
```

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1.361 kmod 20 28.el7

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1.364 diffutils 3.3-5.el7

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1.372 rpm 4.11.3-45.el7

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/**
 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

Found in path(s):
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/**
 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
Instead, they must use the [@link #LocalVariablesSorter(int, int, String, MethodVisitor)] version.

* @param access access flags of the adapted method.
* @param descriptor the method's descriptor (see [@link Type]).
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @throws IllegalStateException if a subclass calls this constructor.
*/
1.378 beanshell 2.0b6

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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preserving your freedom as a user of such programs to change the free
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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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*/opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/Constants.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/style/DefaultValueStyler.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/util/xml/DomContentHandler.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/io/InputStreamSource.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/io/Resource.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/core/convert/support/StringToPropertiesConverter.java

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* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1.jar/org/springframework/util/Assert.java

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* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
  jar/org/springframework/asm/TypePath.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
  jar/org/springframework/asm/TypeReference.java

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  jar/org/springframework/core/type/classreading/RecursiveAnnotationAttributesVisitor.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
  jar/org/springframework/core/io/ResourceLoader.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
  jar/org/springframework/core/io/VfsUtils.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
  jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
  jar/org/springframework/core/convert/support/CollectionToArrayConverter.java

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jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/util/xml/StaxUtils.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/util/CompositeIterator.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/cglib/SpringCglibInfo.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/convert/support/MapToMapConverter.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/env/MapPropertySource.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/env/AbstractPropertyResolver.java
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jar/org/springframework/core/env/AbstractResource.java
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jar/org/springframework/core/env/MutablePropertySources.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/env/AbstractPropertyResolver.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/util/StopWatch.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/core/env/ConfigurablePropertyResolver.java
* /opt/cola/permits/1152323453_1618219063.04/0/spring-core-4-2-1-release-sources-1-
jar/org/springframework/util/concurrent/SuccessCallback.java
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1.394 jaxb-api 2.2.4
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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### 1.404 libunistring 0.9.3 9.el7

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1.409 xerces-j 2.8.1

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```
cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.
```

Found in path(s):
```
* /opt/cola/permits/1000773944_1608566815.83/0/xercesimpl-2-8-1-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
```

1.410 jetty-http 8.1.15.v20140411

1.411 javax-json 1.0.4

1.412 linux-firmware 18.168.6.1-79.el7

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
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35.20130522svn140.el7_5
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@@ -117,7 +117,8 @@
# ignore empty lines
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### logwatch/scripts/services/smartd.new

<table>
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 */
/** Overrides binding confidentiality. */
/**
 * Returns confidentiality override flag.
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * Sets confidentiality override flag.
 * @param flag override flag
 */

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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@end enumerate

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

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

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

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

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

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

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

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

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

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

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

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

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party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

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

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

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

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

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you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
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<one line to give the library's name and a brief idea of what it does.>
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Ty Coon, President of Vice

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

Preamble

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

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

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

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

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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1.464 libxfont 2.0.3-1.el7

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application/postscriptai eps ps
application/rtftftf
application/x-xtextex
application/x-texinfotexinfo texi
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video/x-msvideoavi

# Additional file types adapted from
# TEXT TYPES

text/x-speechtalk
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixelmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
image/x-png
# Image Exchange Format (RFC 1314)
image/ief
# JPEG
image/jpeg
# RGB
image/rbg
# Group III Fax (RFC 1494)
image/g3fax
# X Windowdump format
image/x-xwindowdump
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anymappnm
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-rasteras
# Kodak Photo-CD
image/x-photo-cd
# Computer Graphics Metafile
image/cgm
# CALS Type 1 or 2
image/x-cals
# Fractal Image Format (Iterated Systems)
image/fiff

# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf

# CMX vector image (Corel)
image/x-cmxcmx

# Wavelet-compressed (Summus)
image/waveletwi

# AutoCad Drawing (SoftSource)
image/vnd.dwg

# AutoCad DXF file (SoftSource)
image/vnd.dxf

# Simple Vector Format (SoftSource)
image/vnd.svsvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic""audio - 8-bit u-law PCM"
audio/basic

# Macintosh audio format (Apple)
audio/x-aiff

# Microsoft audio
audio/x-wav

# MPEG audio
audio/x-mpeg

# MPEG-2 audio
audio/x-mpg

# compressed speech (Echo Speech Corp.)
audio/echospeeches

# Toolvox speech audio (Voxware)
audio/voxware

# RapidTransit compressed audio (Fast Man)
application/fastman

# Realaudio (Progressive Networks)
application/x-pn-realaudio

# MIDI music data
x-music/x-midi

# Koan music data (SSeyo)
application/vnd.koan

# Speech synthesis data (MVP Solutions)
text/x-speeche

# VIDEO TYPES

# MPEG video
video/mpeg

video/mpegmpeg mpg mpe

# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movie movie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivo viv

# SPECIAL HTTP/WEB APPLICATION TYPES
# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED
# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtffrtf
# Adobe Acrobat PDF
application/pdfpdf
# Maker Interchange Format (FrameMaker)
application/vnd.mifmif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-manman
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latexlatex
# Tex/LaTeX document
application/x-texutexex
# GNU TexInfo document
application/x-texinfotexinfo texi
# TeX dvi format
application/x-dvidvi
# MS word document
application/msworddoc DOC
# Office Document Architecture
# Envoy Document

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
text/tar
text/x-tar
text/ustar

# 4.3BSD tar format
application/x-bczip
text/ctar
text/ustar-oldcpio

# POSIX tar format
application/x-cpita
text/x-cpio

# Old CPIO format
application/x-bcpita
text/x-cpio-oldcpio

# UNIX sh shell archive
application/x-sharchive

# DOS/PC - Pkzipped archive
application/zip

text/x-zip

text/ztar

# Macintosh Binhexed archive
application/mac-binhex

text/mac-binhex

text/x-stuffit

# Macintosh Stuffit Archive
application/x-stuffita

text/x-stuffit

# Fractal Image Format
application/x-fif

text/x-fif

# "Binary UUencoded"
application/octet-stream

text/plain

text/x-uuenc

# PC executable
application/octet-stream

text/x-executable

text/x-exect

# "WAIS ""sources"
application/x-wais-sources

text/x-wais-sources

text/x-wais-sources

# NCSA HDF data format
application/hdf

text/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript

text/javascript

text/x-javascript

# UNIX bourne shell program
application/x-shell

text/x-shell

text/x-shell

text/x-sh

# UNIX c-shell program
application/x-cshell

text/x-cshell

# Perl program
application/x-perl

text/x-perl

# Tcl (Tool Control Language) program
application/x-tcl

text/x-tcl
# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplashspl
# mBED multimedia data (mBED)
application/mbedletmbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundas

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfmm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-streamexe com
# Pointcast news data (Pointcast)
application/x-pcnpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulae

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrml
# WIRL - VRML data (VREAM)
x-world/x-vream
# Play3D 3d scene data (Play3D)
application/x-p3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svr
# WebActive 3d data (Plastic Thought)
x-world/x-wvr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-mesh
# Vis5D 5-dimensional data
application/vis5d
# IGES models -- CAD/CAM (CGM) data
application/iges
# Autocad WHIP vector drawings
drawing/x-dwf

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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
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jar/org/springframework/mail/MailSendException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
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jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/commonj/DelegatingWork.java
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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleTriggerBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/CronTriggerBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/JobDetailBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
1.470 zlib 1.2.7-17.el7

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1.471 logging-util 1.7.8

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On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'.

Send patches to sysvinit-devel@nongnu.org
The of the start-stop-daemon

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

1.475 gstreamer 1.18.3
1.475.1 Available under license:

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

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

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

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

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

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d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General
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We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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(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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  jar/com/beust/jcommander/IUsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/UnixStyleUsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/JCommander.java
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  jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/converters/URLConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/internal/Lists.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/ParameterException.java
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* /opt/cola/permits/1152322848_1618219334.17/0/spring-security-acl-4-0-2-release-sources-2-jar/org/springframework/security/acls/domain/ConsoleAuditLogger.java
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

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

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

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

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

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

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

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

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

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

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party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

That's all there is to it!

1.483 hibernate-jpa 1.0.0.Final

1.483.1 Available under license:

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Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License. However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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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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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1.488 cs-exception-module 0.8.18

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1.489 activemq-jaas 5.12.0

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1.490 nss-util 3.53.1-1.el7_9

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2.jar/com/ctc/wstx/dtd/DFAValidator.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2.jar/com/ctc/wstx/dtd/StructValidator.java
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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/SimpleOutputElement.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/util/BijectiveNsMap.java
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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDType.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sax/WrappedSaxException.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/WstxInputSource.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/Attribute.java
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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
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* /opt/cola/permits/1152477227_1618244744.04/0/spring-struts-3-0-5-release-sources-2-jar/org/springframework/web/struts/DelegatingRequestProcessor.java
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* /opt/cola/permits/1152477227_1618244744.04/0/spring-struts-3-0-5-release-sources-2-jar/org/springframework/web/struts/ActionServletAwareProcessor.java

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* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/web/multipart/MultipartRequest.java
* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/web/context/request/RequestContextHolder.java
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* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/web/util/UriUtils.java
* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/web/bind/annotation/CookieValue.java
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* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/web/bind/annotation/support/HandlerMethodInvoker.java
* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-jar/org/springframework/http/server/HttpEntity.java
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  jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java
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  jar/org/springframework/web/util/HtmlCharacterEntityReferences.java
* /opt/cola/permits/1152476580_1618244892.8/0/spring-web-3-0-5-release-sources-3-
  jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java

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we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
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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
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b) Give prominent notice with the combined library of the fact
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END OF TERMS AND CONDITIONS

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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

Preamble

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software 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.

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public
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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
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If such an object file uses only numerical parameters, data
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1.505 libxxf86vm 1.1.4 1.el7

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

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

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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1.507 test-mock-resources 9.4.11.v20180605

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 152822323907
Bundle-Classpath: .
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Bundle-Description: Jetty module for Jetty :: Server Core
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Server Core
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.server
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.514 bash 4.2.46 30.el7
1.514.1 Available under license:

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com by cli.com [192.31.85.1] with SMTP (8.6.10+cwru/CWRU-2.3)
id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251619.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.INS.CWRU.Edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

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

It should serve as a pretty good example of how to get carried away. :-)
From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <specedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

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

Chet Ramey

--
``The lyf so short, the craft so long to lerne.'' - Chaucer

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

-- End of excerpt from Chet Ramey
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  * /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/HttpOutputMessage.java
  * /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/converter/HttpMessageConverter.java
  * /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
  * /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
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  * /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
  * /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
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  jar/org/springframework/web/context/async/WebAsyncManager.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-
  jar/org/springframework/web/bind/annotation/PathVariable.java
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  jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/remoting/httpinvoker/SimpleHttpInvokerRequestExecutor.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/web/context/support/ModelAndViewContainer.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/web/context/support/WebApplicationContextUtils.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/web/context/support/ServletRequestHandledEvent.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
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jar/org/springframework/web/context/support/StandardServletEnvironment.java
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jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java
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jar/org/springframework/web/bind/annotation/ValueConstants.java
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jar/org/springframework/web/context/request/RequestScope.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-
jar/org/springframework/web/context/ServletConfigAware.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-
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* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2.jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
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* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-Jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-Jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
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* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-Jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java
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* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/HttpRequest.java
* /opt/cola/permits/1152321511_1618219403.44/0/spring-web-4-2-1-release-sources-2-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java

1.526 sudo 1.8.19p2 13.el7

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brailey, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pieto
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysin, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Grabar, Stephane
Guilory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
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Lakin, Eric
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Moffat, Darren
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Mueller, Andreas
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Peschel, Aaron
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Petten, Diego Elio
Pickett, Joel
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Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
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SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
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Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
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* Reviews the <code>Object</code> returned from a secure object invocation,
* being able to modify the <code>Object</code> or throw an [ @link
* AccessDeniedException].
*<p>
* Typically used to ensure the principal is permitted to access the domain
* object instance returned by a service layer bean. Can also be used to
* mutate the domain object instance so the principal is only able to access
* authorised bean properties or <code>Object</code> elements. Often used
* in conjunction with an [ @link org.acegisecurity/acl.AclManager] to
* obtain the access control list applicable for the domain object instance.
* </p>
*<p>
* Special consideration should be given to using an
* <code>AfterInvocationManager</code> on bean methods that modify a database.
* Typically an <code>AfterInvocationManager</code> is used with read-only
* methods, such as <code>public DomainObject getById(id)</code>. If used with
* methods that modify a database, a transaction manager should be used to
* ensure any <code>AccessDeniedException</code> will cause a rollback of the
* changes made by the transaction.
* </p>
*<p>
* @author Ben Alex
* @version $Id: AfterInvocationManager.java 1496 2006-05-23 13:38:33Z benalex $
*/

Found in path(s):
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1-0-3-sources-jar/org/acegisecurity/providers/TestingAuthenticationProvider.java
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1-0-3-sources-jar/org/acegisecurity/securityconfig/SecurityConfig.java
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1-0-3-sources-jar/org/acegisecurity/vote/InterfaceBasedLabelParameterStrategy.java
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1.0.3-sources.jar/org/acegisecurity/acls/domain/AclAuthorizationStrategyImpl.java
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1.0.3-sources.jar/org/acegisecurity/ui/PortMapperImpl.java
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1.0.3-sources.jar/org/acegisecurity/acls/ChildrenExistException.java
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* /opt/cola/permits/1111265066_1606891276.21/0/acegi-security-1.0.3-sources.jar/org/acegisecurity/providers/cas/CasProxyDecider.java

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

```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c
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Version 3.0, 18 August 2009

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dwg

# AutoCad DXF file (SoftSource)
image/vnd.dxf
dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic""audio - 8-bit u-law PCM"
audio/basic snd
# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav wav
# MPEG audio
audio/x-mpegmpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeech
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
apPLICATION/fastmanlcc
# Realaudio (Progressive Networks)
apPLICATION/x-pn-realaudiora ram
# MIDI music data
x-music/x-midi
# Koan music data (SSeyo)
apPLICATION/vnd.koanskp
# Speech synthesis data (MVP Solutions)
text/x-speech talk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mpv2
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movie mov
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES
# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdfpdf
# Maker Interchange Format (FrameMaker)
application/vnd.mifmif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-manman
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latex
# Tex/LateX document
application/x-tex
# GNU TexInfo document
application/x-texinfotexinfo texi
# TeX dvi format
application/x-dvidvi
# MS word document
application/msworddoc DOC
# Office Document Architecture
application/odaoda
# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
# 4.3BSD tar format
application/x-tar
# POSIX tar format
application/x-ustar
# Old CPIO format
application/x-bcpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffitsit
# Fractal Image Format
application/fractals
# "Binary UUencoded"
application/octet-stream uu
# PC executable
application/octet-stream exe
# "WAIS "sources"
application/x-wais-sources src rsr
# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript is mocha
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash
# mBED multimedia data (mBED)
application/mbedlet
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcnpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrm1
# WIRL - VRML data (VREAM)
x-world/x-vreamvrm1
# Play3D 3d scene data (Play3D)
# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica

# Computational meshes for numerical simulations
x-model/x-mesh/msh

# Vis5D 5-dimensional data
application/vis5d/v5d

# IGES models -- CAD/CAM (CGM) data
application/iges/igs

# Autocad WHIP vector drawings
drawing/x-dwf/dwf

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  jar/org/springframework/mail/javamail/mime.types

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  jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
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* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java
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* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
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* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractKeyCacheInterceptor.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CachePutInterceptor.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/interceptor/BeanFactoryJCacheOperationSourceAdvisor.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/cache/jcache/config/JCacheConfigurer.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/ui/freemarker/SpringTemplateLoader.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/mail/javamail/JavaMailSender.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java

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  jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-
  jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
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* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-
  jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-
  jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1135953007_1613641357.48/0/spring-context-support-4-3-10-release-sources-2-
  jar/org/springframework/cache/jcache/interceptor/JCacheAspectSupport.java

1.546 tomcat-catalina-jmx-remote 8.0.26

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1.548 perl-xml-parser 2.41 10.el7

1.549 error_prone_annotations 2.1.3

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1.552 spring-web 3.2.8.RELEASE

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* /opt/cola/permits/1143551589_1615694769.5/0/spring-web-3-2-8-release-sources-2.jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java

1.553 gnome-vfs 2.24.4-14.el7

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1.554 libdrm 2.4.97-2.el7

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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])
* version.
*
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see { @link Opcodes }). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type }).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* { @link Type#getName } getInternalName()). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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 */
/***
 * Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { [GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv

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* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see \{@link Opcodes\}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see \{@link Type Type\}).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
  jar/org/objectweb/asm/commons/GeneratorAdapter.java
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*/
/**
* Constructs a new \{@link Textifier\}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the \{@link #Textifier(int)\}

* version.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
* Constructs a new [ClassNode]. Subclasses must not use this
* constructor. Instead, they must use the [ClassNode(int)]
* version.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/
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/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * &lt;tt>null&lt;/tt&gt; if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 */
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 *     the owner's class name.
 * @param access
 *     the method's access flags (see [@link Opcodes]).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see [@link Type Type]).
 * @param mv
 *     the method visitor to which this adapter delegates calls. May
 *     be <tt>null</tt>.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of ‘broken’ TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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/**

$Id: DOMOutputter.java,v 1.43 2007/11/10 05:29:01 jhunter Exp $

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$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp $

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$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/transform/JDOMResult.java
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$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp $

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$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp $

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$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp $

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* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/input/BuilderErrorHandler.java
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$Id: Verifier.java,v 1.57 2009/07/23 05:54:23 jhunter Exp $

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$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp$

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$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp $

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$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp $

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$Id: Filter.java,v 1.10 2007/11/10 05:29:00 jhunter Exp $

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* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/filter/Filter.java
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$Id: CDATA.java,v 1.32 2007/11/10 05:28:58 jhunter Exp $

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$Id: JDOMException.java,v 1.26 2008/12/10 00:59:51 jhunter Exp $

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* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/adapters/OracleV2DOMAdapter.java
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$Id: XML4JDOMAdapter.java,v 1.18 2007/11/10 05:28:59 jhunter Exp $

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$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp $

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$Id: JDOMSource.java,v 1.20 2007/11/10 05:29:02 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/transform/JDOMSource.java
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$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp$

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$Id: OracleV1DOMAdapter.java,v 1.20 2007/11/10 05:28:59 jhunter Exp $

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*/

Found in path(s):
* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-
  jar/org/jdom/adapters/JAXPDOMNodeAdapter.java

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* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/adapters/DOMAdapter.java
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$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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* /opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/filter/NegateFilter.java

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*/opt/cola/permits/1136279776_1613727241.79/0/jdom-1-1-2-sources-1-jar/org/jdom/output/JDOMLocator.java

1.562 kexec-tools 2.0.15-51.0.3.el7_9.1
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1.564 jackson-databind 2.12.2

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1.566 jackson-dataformat-cbor 2.6.7

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1.567 dbtools-common 19.1.0

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1.569 stax-ex 1.0

1.570 commons-compress 1.19

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1.571 libssh2 1.8.0-4.el7

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1.572 woden-core 1.0M10

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1.573 grubby 8.28 23.el7

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1.574 tar 1.2.11-29.el7

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1.575 tc-l1-reconnect-properties 3.7.0

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JUnit

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

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python
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1.586 api-util 1.0.0

1.587 bouncy-castle 1.60

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* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java

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* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/KeyGeneratorAdapter.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheResolverAdapter.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/config/ProxyJCacheConfiguration.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java

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  jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/KeyGeneratorAdapter.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheResolverAdapter.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/cache/jcache/config/ProxyJCacheConfiguration.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
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* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4.3.30-release-sources-1.jar/org/springframework/mail/SimpleMailMessage.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4.3.30-release-sources-1.jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java

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# Defaults for the Java Activation Framework (revised).
# Modified extensions registered in this file:
# text/plain			java c c++ cpp pl cc h
# image/png				png
#
# text/htmlhtml htm HTML HTM
text/plaintxt text TXT TEXT java c c++ cpp pl cc h
image/gifgif GIF
image/jpegjpeg jpg jpe JPG
image/tifftif tif
image/x-xwindowdumpxwd
application/postscriptai eps ps
application/rtftf
application/x-tex
textinfo text
application/x-troff tr roff
audio/basic
audio/midimidi mid
audio/x-aifcaifc
audio/x-aiffaiff aiff
audio/x-mpegmpg mpg
audio/x-wavwav
video/mpeg
video/quicktime
video/x-msvideo

# Additional file types adapted from
# https://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
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#
# TEXT TYPES

text/x-speech
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixelmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
image/png
# Image Exchange Format (RFC 1314)
image/ief
# RGB
image/rgb
# Group III Fax (RFC 1494)
image/g3fax
# X Windowdump format
image/x-xwindowdump
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anymappnm
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpcd

# Computer Graphics Metafile
image/cgm
cgm

# CALS Type 1 or 2
image/x-cals
mil
cal

# Fractal Image Format (Iterated Systems)
image/fif

# QuickSilver active image (Micrografx)
image/x-ngx-dsdfs

# CMX vector image (Corel)
image/x-cmxcmx

# Wavelet-compressed (Summus)
image/waveletwi

# AutoCad Drawing (SoftSource)
image/vnd.dwgdwg

# AutoCad DXF file (SoftSource)
image/vnd.dxdxf

# Simple Vector Format (SoftSource)
image/vnd.svfvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# "basic" audio - 8-bit u-law PCM
audio/basic

# Macintosh audio format (Apple)
audio/x-aiff

# Microsoft audio
audio/x-wavwav

# MPEG audio
audio/x-mpegmmpa
abs
mpega

# MPEG-2 audio
audio/x-mpeg-2mp2a
mpa2

# compressed speech (Echo Speech Corp.)
audio/echospeeches

# Toolvox speech audio (Voxware)
audio/voxwarevox

# RapidTransit compressed audio (Fast Man)
application/fastmanlcc

# Realaudio (Progressive Networks)
application/x-pn-realaudio

# MIDI music data
x-music/x-midimid

# Koan music data (SSeyo)
application/vnd.koanskpk

# Speech synthesis data (MVP Solutions)
text/x-speechtalk
# VIDEO TYPES

# MPEG video
video/mpeg
video/mpeg2

# MPEG-2 video
video/mpeg-2v

# Macintosh Quicktime
video/quicktime

# Microsoft video
video/x-msvideo

# SGI Movie format
video/x-sgi-movie

# VDOlive streaming video (VDOnet)
video/vnd.vdo

# Vivo streaming video (Vivo software)
video/vnd.vivo

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig

# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk

# TEXT-RELATED

# PostScript
application/postscript

# Microsoft Rich Text Format
application/rtf

# Adobe Acrobat PDF
application/pdf

# Maker Interchange Format (FrameMaker)
application/vnd.mif

# Troff document
application/x-troff

# Troff document with MAN macros
application/x-troff-man

# Troff document with ME macros
application/x-troff-meme

# Troff document with MS macros
application/x-troff-msms

# LaTeX document
application/x-latex

# Tex/LaTeX document
application/x-tex

# GNU TexInfo document
application/x-texinfo

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# TeX dvi format
application/x-dvidvi
# MS word document
application/msworddoc DOC
# Office Document Architecture
application/odaoda
# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
data
# 4.3BSD tar format
application/x-tartar
data
# POSIX tar format
application/x-ustarustar
data
# Old CPIO format
application/x-bcpio
data
# POSIX CPIO format
application/x-cpio
data
# UNIX sh shell archive
application/x-sharshar
# DOS/PC - Pkzipped archive
application/zipzip
# Macintosh Binhexed archive
application/mac-binhex40hqx
# Macintosh Stuffit Archive
application/x-stuffitsit sea
# Fractal Image Format
application/fractalsfif
# "Binary UUencoded"
application/octet-stream bin uu
# PC executable
application/octet-stream exe
# "WAIS ""sources"
application/x-wais-sourcesresrc wsrc
# NCSA HDF data format
application/hdfhdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript js ls mocha
# UNIX bourne shell program
application/x-shsh
# UNIX c-shell program
application/x-cshcsh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash
# mBED multimedia data (mBED)
application/mbedlet
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint
# ASAP WordPower (Software Publishing Corp.)
application/x-asap
# Astound Web Player multimedia data (GoldDisk)
application/astoundasnpn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript
# OLE Object (Microsoft/NCompass)
application/x-oleobject
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape
# Visual Basic objects (Amara)
application/x-webbasic
# Specialized data entry forms (Alpha Software)
application/x-alpha-form
# client-server objects (Wayfarer Communications)
x-script/x-wxclient

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream
# Pointcast news data (Pointcast)
application/x-pcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excel
# PowerPoint (Microsoft)
application/vnd.ms-powerpoint
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp

# SourceView document (Dataware Electronics)
application/vnd.svd

# Net Install - software install (20/20 Software)
application/x-net-installins

# Carbon Copy - remote control/access (Microcom)
application/ccvccv

# Spreadsheets (Visual Components)
workbook/formulaonvts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrm!

# WIRL - VRML data (VREAM)
x-world/x-vreamvrm

# Play3D 3d scene data (Play3D)
application/x-p3dp3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr

# WebActive 3d data (Plastic Thought)
x-world/x-wvrrwv

# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematicama

# Computational meshes for numerical simulations
x-model/x-meshmsh

# Vis5D 5-dimensional data
application/vis5dv5d

# IGES models -- CAD/CAM (CGM) data
application/igesigs

# Autocad WHIP vector drawings
drawing/x-dwf/dwf

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jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/cache/guava/GuavaCache.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java

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* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4-3-30-release-sources-1-
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
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jar/org/springframework/mail/MailPreparationException.java
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jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
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* /opt/cola/permits/1137268245_1614043244.47/0/spring-context-support-4.3-30-release-sources-1.jar/org/springframework/mail/javamail/SmartMimeMessage.java

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**1.597 jcl-over-slf4j 1.7.10**

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* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1-jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1-jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1.jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1.jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1.jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1.jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1.jar/org/apache/commons/logging/impl/SLF4JLog.java

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* /opt/cola/permits/1137305495_1614052249.11/0/jcl-over-slf4j-1-7-10-sources-1.jar/org/apache/commons/logging/package.html

1.598 jetty-servlet 8.1.15.v20140411
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: jesse
Build-Jdk: 1.7.0_51
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 8.1.15.v20140411
url: http://www.eclipse.org/jetty
Export-Package: org.eclipse.jetty.servlet;uses="org.eclipse.jetty.seri
ver.nio,org.eclipse.jetty.server.handler,org.eclipse.jetty.util.resou
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 */
/**
 ** Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

Found in path(s):
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1- jar/org/springframework/jdbc/support/lob/LobCreator.java

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/**
 *
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>

* <p>This package and related packages are discussed in Chapter 9 of
* by Rod Johnson (Wrox, 2002).
* */

Found in path(s):
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/package-info.java
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/**
 * [@link LobHandler] implementation for Oracle databases. Uses proprietary API
 * to create <code>oracle.sql.BLOB</code> and <code>oracle.sql.CLOB</code>
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * <p>While most databases are able to work with [@link DefaultLobHandler],
 * Oracle just accepts Blob/Clob instances created via its own proprietary
 * BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need
 * to use a strategy like this LobHandler implementation.
 *
 * <p>Needs to work on a native JDBC Connection, to be able to cast it to
* <code>oracle.jdbc.OracleConnection</code>. If you pass in Connections from a
* connection pool (the usual case in a J2EE environment), you need to set an
* appropriate [ @link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
*
* <p>Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
*
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see #setNativeJdbcExtractor
* @see oracle.sql.BLOB
* @see oracle.sql.CLOB
*/

Found in path(s):
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3.0.5-release-sources-1-
  jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3.0.5-release-sources-1-
  jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3.0.5-release-sources-1-
  jar/org/springframework/jdbc/core/SqlProvider.java

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*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/SqlReturnResultSet.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/support/SqlLobValue.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/support/LobCreatorUtils.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/support/MetaDataAccessException.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/JdbcWarningException.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/CallableStatementCreator.java
*/opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/PreparedStatementCreator.java

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

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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/support/lob/LobHandler.java
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jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/JdbcTemplate.java

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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
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/**
* Strategy interface for translating between {link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {link DataAccessException} hierarchy.
* Implementations can be generic (for example, using
* {link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never <code>null</code>)
*/

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* /opt/cola/permits/1087906097_1608119294.11/0/asm-all-repackaged-2-4-0-b10-
  jar/org/glassfish/hk2/external/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1087906097_1608119294.11/0/asm-all-repackaged-2-4-0-b10-
  jar/org/glassfish/hk2/external/org/objectweb/asm/package.html
* /opt/cola/permits/1087906097_1608119294.11/0/asm-all-repackaged-2-4-0-b10-
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1.602 batik-constants 1.11

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* /opt/cola/permits/1136471088_1613772164.9/0/ehcache-1-2-3-sources-1-jar/src/net/sf/ehcache/distribution/JNDIManualRMICacheManagerPeerProvider.java
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* /opt/cola/permits/1136471088_1613772164.9/0/ehcache-1-2-3-sources-1-jar/src/net/sf/ehcache/event/RegisteredEventListener.java

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* /opt/cola/permits/1136471088_1613772164.9/0/ehcache-1-2-3-sources-1-jar/src/net/sf/ehcache/ObjectExistsException.java
1.604 jackson-jaxrs-base 2.8.9

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

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.606 libcap 1.10-7.el7

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1.609 e2fsprogs 1.45.4-3.0.5.el7

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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# # 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"
@makedir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $<($(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSDLIB_LIB)
$(RM) -f ../*.$(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSDLIB_LIB) $(BSDLIB_LIB))

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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That's all there is to it!
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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.610 libnfsidmap 0.25-19.el7

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This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on Fri, 6 Aug 2004 16:10:43 -0400.

The latest version can always be found at http://www.citi.umich.edu/projects/nfsv4/linux/

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1.611 cassandra-driver-core 3.0.2

1.612 gobject-introspection 1.56.1-1.el7

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1.613 glib 1.10.2-13.el7

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1.614 shim-signed 15-8.el7_8

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1.622 util-linux 2.23.2-65.0.1.el7

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Version 2, June 1991

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Device Boot      Start         End      Blocks   Id  System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

  Device Boot      Start         End      Blocks   Id  System
__ts_dev__1      2048         4095        1024   83  Linux
-------------------
Create 2st primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

  Device Boot      Start         End      Blocks   Id  System
__ts_dev__1      2048         4095        1024   83  Linux
__ts_dev__2      4096        20479        8192   a5  FreeBSD
-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end     size    fstype [fsize bsize   cpg]
c:  4096  20479   16384    unused        0     0
d:   0  16064   16065    unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end     size    fstype [fsize bsize   cpg]
a:  4096  6144   2049      4.2BSD        0     0     0
c:  4096  20479  16384    unused        0     0
d:   0  16064  16065    unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):
1.623 network-manager 1.18.8-2.el7_9

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  jar/org/springframework/jca/cci/object/EisOperation.java
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  jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
* /opt/cola/permits/1152477796_1618244600.37/0/spring-tx-3-2-3-release-sources-2-
  jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1152477796_1618244600.37/0/spring-tx-3-2-3-release-sources-2-
  jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
* /opt/cola/permits/1152477796_1618244600.37/0/spring-tx-3-2-3-release-sources-2-
  jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1152477796_1618244600.37/0/spring-tx-3-2-3-release-sources-2-
  jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java

1.633 jsch 0.1.53
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* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-jar/org/apache/log/output/jms/TextMessageBuilder.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-jar/org/apache/log/output/io/rotate/BaseFileNameFilter.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-jar/org/apache/log/ErrorHandler.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-jar/org/apache/log/output/io/rotate/RotateStrategy.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-jar/org/apache/log/util/LoggerListener.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-jar/org/apache/log/output/jms/AbstractJMSTarget.java
jar/org/apache/log/output/MemoryTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/jms/PropertyType.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/db/ColumnType.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/io/rotate/RotateStrategyByTimeOfDay.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/format/XMLFormatter.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/net/SocketOutputTarget.java
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jar/org/apache/log/output/NullOutputLogTarget.java
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jar/org/apache/log/output/io/rotate/UniqueFileStrategy.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/io/rotate/RevolvingFileStrategy.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
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* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/io/WriterTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/db/DefaultJDBCTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/net/DatagramOutputTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/jms/JMSQueueTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/jms/JMSTopicTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/db/DefaultDataSource.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/Hierarchy.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
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* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
jar/org/apache/log/output/jms/JMSTopicTarget.java
* /opt/cola/permits/1110642513_1606841458.64/0/avalon-logkit-2-2-1-sources-2-
1.635 readline 6.2-11.el7

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1.644 stax-ex 1.2

1.645 libxtst 1.2.3-1.el7

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1.646 perl-html-tagset 3.20 15.el7
1.647 springfox-swagger-ui 2.2.2
1.647.1 Available under license :
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/*
jQuery Wiggle
Author: WonderGroup, Jordan Thomas
URL: http://labs.wondergroup.com/demos/mini-ui/index.html
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*/
Found in path(s):
* /opt/cola/permits/1014407161_1608569956.84/0/springfox-swagger-ui-2-2-2-jar/METAINF/resources/webjars/springfox-swagger-ui/lib/jquery.wiggle.min.js
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* /opt/cola/permits/1014407161_1608569956.84/0/springfox-swagger-ui-2-2-2-jar/METAINF/resources/webjars/springfox-swagger-ui/lib/marked.js
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(function(){function
e(){e.history=e.history||[],e.history.push(arguments),this.console&&console.log(Array.prototype.slice.call(argument
s)[0])}this.Handlebars=this.Handlebars||{},this.Handlebars.templates=this.Handlebars.templates||{},this.Handlebars.
templates.apikey_button_view=Handlebars.template({compiler:[6,">= 2.0.0-beta.1"],main:function(e,t,n,r){var
i,a="function",o=t.helperMissing,s=this.escapeExpression;return"<!--div class='auth_button'
id='apikey_button'><img class='auth_icon' alt='apply api key' src='images/apikey.jpeg'></div-->\n<div
class='auth_container' id='apikey_container'>\n <div class='key_input_container'>\n <div
class='auth_label'><label for='input_apiKey_entry'>"+s((i=null!=(i=t.keyName||(null!=e?e.keyName:e))?i:o,typeof
i===a?i.call(e,{name:"keyName",hash:{},data:r}):i))+"</label></div>\n <input placeholder='api_key'
class='auth_input' id='input_apiKey_entry' name='apiKey' type='text'/>\n <div class='auth_submit'><a
class='auth_submit_button' id='apply_api_key' href='#' data-sw-translate>apply</a></div>\n
</div>\n</div>\n"},useData:!0}),this.Handlebars.templates.basic_auth_button_view=Handlebars.template({compile
r:[6,">= 2.0.0-beta.1"],main:function(e,t,n,r){return'<div class=\'auth_button\' id=\'basic_auth_button\'><img
class=\'auth_icon\' src=\'images/password.jpeg\'></div>\n<div class=\'auth_container\'
id=\'basic_auth_container\'>\n <div class=\'key_input_container\'>\n <div class="auth_label"><label

Open Source Used In OnPrem2.1 2.2 6550


Open Source Used In OnPrem2.1 2.2 6557
compat/collection/each"),includes:e("lodash-compat/collection/includes"),isObject:e("lodashcompat/lang/isObject"),isArray:e("lodashcompat/lang/isArray")},s=t.exports.SwaggerAuthorizations=function(e){this.authz=e||{}};s.prototype.add=function(
e,t){if(o.isObject(e))for(var n in e)this.authz[n]=e[n];else"string"==typeof e&&(this.authz[e]=t);return
t},s.prototype.remove=function(e){return delete this.authz[e]},s.prototype.apply=function(e,t){var
n=!0,r=!t,i=[];return o.each(t,function(e,t){"string"==typeof
t&&i.push(t),o.each(e,function(e,t){i.push(t)})}),o.each(this.authz,function(t,a){if(r||o.includes(i,a)){var
s=t.apply(e);n=n&&!!s}}),n};var
l=t.exports.ApiKeyAuthorization=function(e,t,n){this.name=e,this.value=t,this.type=n};l.prototype.apply=function(
e){return"query"===this.type?(e.url=e.url.indexOf("?")>0?e.url+"&"+this.name+"="+this.value:e.url+"?"+this.nam
e+"="+this.value,!0):"header"===this.type?("undefined"==typeof
e.headers[this.name]&&(e.headers[this.name]=this.value),!0):void 0};var
u=t.exports.CookieAuthorization=function(e){this.cookie=e};u.prototype.apply=function(e){return
e.cookieJar=e.cookieJar||new a,e.cookieJar.setCookie(this.cookie),!0};var
c=t.exports.PasswordAuthorization=function(e,t){3===arguments.length&&(r.log("PasswordAuthorization: the
'name' argument has been removed, pass only username and
password"),e=arguments[1],t=arguments[2]),this.username=e,this.password=t};c.prototype.apply=function(e){retur
n"undefined"==typeof e.headers.Authorization&&(e.headers.Authorization="Basic
"+i(this.username+":"+this.password)),!0}},{"./helpers":4,btoa:18,cookiejar:19,"lodashcompat/collection/each":55,"lodash-compat/collection/includes":58,"lodash-compat/lang/isArray":143,"lodashcompat/lang/isObject":147}],3:[function(e,t,n){"use strict";var r={bind:e("lodashcompat/function/bind"),cloneDeep:e("lodash-compat/lang/cloneDeep"),find:e("lodashcompat/collection/find"),forEach:e("lodash-compat/collection/forEach"),indexOf:e("lodashcompat/array/indexOf"),isArray:e("lodash-compat/lang/isArray"),isObject:e("lodashcompat/lang/isObject"),isFunction:e("lodash-compat/lang/isFunction"),isPlainObject:e("lodashcompat/lang/isPlainObject"),isUndefined:e("lodashcompat/lang/isUndefined")},i=e("./auth"),a=e("./helpers"),o=e("./types/model"),s=e("./types/operation"),l=e("./types
/operationGroup"),u=e("./resolver"),c=e("./http"),p=e("./specconverter"),f=["apis","authorizationScheme","authorizations","basePath","build","buildFrom1_1Spec","buildFrom1
_2Spec","buildFromSpec","clientAuthorizations","convertInfo","debug","defaultErrorCallback","defaultSuccessCal
lback","fail","failure","finish","help","idFromOp","info","initialize","isBuilt","isValid","modelPropertyMacro","mo
dels","modelsArray","options","parameterMacro","parseUri","progress","resourceCount","sampleModels","selfRefl
ect","setConsolidatedModels","spec","supportedSubmitMethods","swaggerRequestHeaders","tagFromLabel","url","
useJQuery"],h=["apis","asCurl","description","externalDocs","help","label","name","operation","operations","opera
tionsArray","path","tag"],d=["delete","get","head","options","patch","post","put"],m=t.exports=function(e,t){return
this.authorizations=null,this.authorizationScheme=null,this.basePath=null,this.debug=!1,this.info=null,this.isBuilt=!
1,this.isValid=!1,this.modelsArray=[],this.resourceCount=0,this.url=null,this.useJQuery=!1,this.swaggerObject={},t
his.clientAuthorizations=new i.SwaggerAuthorizations,"undefined"!=typeof
e?this.initialize(e,t):this};m.prototype.initialize=function(e,t){this.models={},this.sampleModels={},"string"==type
of
e?this.url=e:r.isObject(e)&&(t=e,this.url=t.url),t=t||{},this.clientAuthorizations.add(t.authorizations),this.swaggerRe
questHeaders=t.swaggerRequestHeaders||"application/json;charset=utf8,*/*",this.defaultSuccessCallback=t.defaultSuccessCallback||null,this.defaultErrorCallback=t.defaultErrorCallback||
null,this.modelPropertyMacro=t.modelPropertyMacro||null,this.parameterMacro=t.modelPropertyMacro||null,"funct
ion"==typeof
t.success&&(this.success=t.success),t.useJQuery&&(this.useJQuery=t.useJQuery),this.options=t||{},this.supportedS
ubmitMethods=t.supportedSubmitMethods||[],this.failure=t.failure||function(){},this.progress=t.progress||function(){
},this.spec=r.cloneDeep(t.spec),"function"==typeof

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t.success&&(this.ready=!0,this.build())},m.prototype.build=function(e){if(this.isBuilt)return this;var
t=this;this.progress("fetching resource list: "+this.url);var
n={useJQuery:this.useJQuery,url:this.url,method:"get",headers:{accept:this.swaggerRequestHeaders},on:{error:fun
ction(e){return t.fail("http"!==t.url.substring(0,4)?"Please specify the protocol for "+t.url:0===e.status?"Can't read
from server. It may not have the appropriate access-control-origin settings.":404===e.status?"Can't read swagger
JSON from "+t.url:e.status+" : "+e.statusText+" "+t.url)},response:function(e){var n=e.obj;if(!n)return t.fail("failed
to parse JSON/YAML
response");if(t.swaggerVersion=n.swaggerVersion,t.swaggerObject=n,n.swagger&&2===parseInt(n.swagger))t.swa
ggerVersion=n.swagger,(new u).resolve(n,t.url,t.buildFromSpec,t),t.isValid=!0;else{var r=new
p;t.oldSwaggerObject=t.swaggerObject,r.setDocumentationLocation(t.url),r.convert(n,t.clientAuthorizations,functio
n(e){t.swaggerObject=e,(new
u).resolve(e,t.url,t.buildFromSpec,t),t.isValid=!0})}}}};if(this.spec)t.swaggerObject=this.spec,setTimeout(function(
){(new u).resolve(t.spec,t.buildFromSpec,t)},10);else{if(this.clientAuthorizations.apply(n),e)return n;(new
c).execute(n,this.options)}return this},m.prototype.buildFromSpec=function(e){if(this.isBuilt)return
this;this.apis={},this.apisArray=[],this.basePath=e.basePath||"",this.consumes=e.consumes,this.host=e.host||"",this.in
fo=e.info||{},this.produces=e.produces,this.schemes=e.schemes||[],this.securityDefinitions=e.securityDefinitions,this
.title=e.title||"",e.externalDocs&&(this.externalDocs=e.externalDocs),this.authSchemes=e.securityDefinitions;var
t,n={};if(Array.isArray(e.tags))for(n={},t=0;t<e.tags.length;t++){var i=e.tags[t];n[i.name]=i}var u;"string"==typeof
this.url?(u=this.parseUri(this.url),this.scheme="undefined"==typeof
this.schemes||0===this.schemes.length?u.scheme||"http":this.schemes[0],("undefined"==typeof
this.host||""===this.host)&&(this.host=u.host,u.port&&(this.host=this.host+":"+u.port))):this.scheme="undefined"=
=typeof this.schemes||0===this.schemes.length?"http":this.schemes[0],this.definitions=e.definitions;var c;for(c in
this.definitions){var p=new
o(c,this.definitions[c],this.models,this.modelPropertyMacro);p&&(this.models[c]=p)}var m=this;return
m.apis.help=r.bind(m.help,m),r.forEach(e.paths,function(e,t){r.isPlainObject(e)&&r.forEach(d,function(i){var
o=e[i];if(!r.isUndefined(o)){if(!r.isPlainObject(o))return void a.log("The '"+i+"' operation for '"+t+"' path is not an
Operation Object");var u=o.tags;(r.isUndefined(u)||!r.isArray(u)||0===u.length)&&(u=o.tags=["default"]);var
c=m.idFromOp(t,i,o),p=new
s(m,o.scheme,c,i,t,o,m.definitions,m.models,m.clientAuthorizations);r.forEach(u,function(e){var t=r.indexOf(f,e)>1?"_"+e:e,i=r.indexOf(h,e)>-1?"_"+e:e,o=m[t];if(t!==e&&a.log("The '"+e+"' tag conflicts with a SwaggerClient
function/property name. Use 'client."+t+"' or 'client.apis."+e+"' instead of 'client."+e+"'."),i!==e&&a.log("The
'"+e+"' tag conflicts with a SwaggerClient operation function/property name. Use 'client.apis."+i+"' instead of
'client.apis."+e+"'."),r.indexOf(h,c)>-1&&(a.log("The '"+c+"' operationId conflicts with a SwaggerClient operation
function/property name. Use 'client.apis."+i+"._"+c+"' instead of
'client.apis."+i+"."+c+"'."),c="_"+c,p.nickname=c),r.isUndefined(o)){o=m[t]=m.apis[i]={},o.operations={},o.label=
i,o.apis={};var
s=n[e];r.isUndefined(s)||(o.description=s.description,o.externalDocs=s.externalDocs),m[t].help=r.bind(m.help,o),m.a
pisArray.push(new
l(e,o.description,o.externalDocs,p))}r.isFunction(o.help)||(o.help=r.bind(m.help,o)),m.apis[i][c]=o[c]=r.bind(p.execu
te,p),m.apis[i][c].help=o[c].help=r.bind(p.help,p),m.apis[i][c].asCurl=o[c].asCurl=r.bind(p.asCurl,p),o.apis[c]=o.ope
rations[c]=p;var u=r.find(m.apisArray,function(t){return
t.tag===e});u&&u.operationsArray.push(p)})}})}),this.isBuilt=!0,this.success&&(this.isValid=!0,this.isBuilt=!0,thi
s.success()),this},m.prototype.parseUri=function(e){var
t=/^(((([^:\/#\?]+:)?(?:(\/\/)((?:(([^:@\/#\?]+)(?:\:([^:@\/#\?]+))?)@)?(([^:\/#\?\]\[]+|\[[^\/\]@#?]+\])(?:\:([09]+))?))?)?)?((\/?(?:[^\/\?#]+\/+)*)([^\?#]*)))?(\?[^#]+)?)(#.*)?/,n=t.exec(e);return{scheme:n[4].replace(":",""),host:
n[11],port:n[12],path:n[15]}},m.prototype.help=function(e){var t="";return this instanceof
m?r.forEach(this.apis,function(e,n){r.isPlainObject(e)&&(t+="operations for the '"+n+"'
tag\n",r.forEach(e.operations,function(e,n){t+=" * "+n+": "+e.summary+"\n"}))}):(this instanceof

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Open Source Used In OnPrem2.1 2.2  6573
Open Source Used In OnPrem 2.1, 2.2
"unacceptable kind of an object to dump
"+a")"?":="e.tag&(&c(e.dump,t))null==e.tag&"?"?":="e.tag&(&c(e.dump="!"&e.tag+");
"+e.dump) return!0] function x(e,t)[ var n,r,i=[a劬;for(S(e,i),n=0,r=a.length;r<n;+1)t.duplicates.push([i[a[n]]];t.usedDuplicates=new Array(r) function S(e,t,n) { var r,i,a;T.call(e) if(nll==e&&&"object"==typeof e) if(i=!indexOf(e,-1)==-1) l==n.indexOf(indexOf(&&n.push(i); else if(t.push(e).Array.isArray(e)) for(i=0,a=e.length;a>i;i+=1) S(e[i],t,n); else for(r=Object.keys(e),i=0,a=r.length;a>i;i+=1) S(e[r[i]],t,n) function A(e,t) { (t[e]=[]) var n=new a(t); return x(e,n),w(n,"",""","");
"+u.prototype.takeUpTo=function(e) { var t;if(e<this.checkpoint) throw t=new Error("position should be > checkpoint"); t.position=e.t.checkpoint=this.checkpoint,t.return this.result+=this.source.slice(this.checkpoint,e),this.checkpoint=e,this },u.prototype.escapeChar=function() { var e,t; return e=this.source.charCodeAt(this.checkpoint),t=ee[e]||i(e),this.result+=t,this.checkpoint+=1 },u.prototype.finish=fu nction(){this.source.length>this.checkpoint&&this.takeUpTo(this.source.length)},t.exports.dump=A,t.exports.safeD ump=C,}
null!==e&&Object.keys(e).forEach(function(n){e[n].forEach(function(t){if(!!=o.indexOf(t))throw new a('Unknown option "'\"+t\"" is met in definition of "'\"+e\"" YAML type.'));}),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(){return!0},this.construct=t.construct||function(e)\{return e\},this.instanceOf=t.instanceOf||null,this.predicate=t.predicate||null,\}this.defaultStyle=t.defaultStyle||null,\}this.styleAliases=r(t.styleAliases||null),s=!s.indexOf(this.kind))throw new a('Unknown kind "'\"+this.kind\"" is specified for "'\"+e\"" YAML type.')\}var a=e("./exception"),o=["kind","resolve","construct","instanceOf","predicate","defaultStyle","styleAliases"],t=\{\"scalar\",\"sequence\",\"mapping\"\};t.exports=i,\{\"./exception":25\},35:{\}function(e,t)\{if(t=t||{},Object.keys(t).forEach(function(t){if(-1===o.indexOf(t))throw new a('Unknown option \"\" is met in definition of \"\" YAML type.')}}),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(e)\{return e\},this.construct=t.construct||function(e)\{return e\},this.instanceOf=t.instanceOf||null,this.predicate=t.predicate||null,this.defaultStyle=t.defaultStyle||null,\}this.styleAliases=r(t.styleAliases||null),s=!s.indexOf(this.kind))throw new a('Unknown kind "'\"+this.kind\"" is specified for "'\"+t\"" YAML type.')\}var a=e("./exception"),o=["kind","resolve","construct","instanceOf","predicate","defaultStyle","styleAliases"],t=\{\"scalar\",\"sequence\",\"mapping\"\};t.exports=i,\{\"./exception":25\},35:{\}function(e,t)\{if(t=t||{},Object.keys(t).forEach(function(t){if(-1===o.indexOf(t))throw new a('Unknown option \"\" is met in definition of \"\" YAML type.')}}),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(e)\{return e\},this.construct=t.construct||function(e)\{return 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a=e("./exception"),o=["kind","resolve","construct","instanceOf","predicate","defaultStyle","styleAliases"],t=\{\"scalar\",\"sequence\",\"mapping\"\};t.exports=i,\{\"./exception":25\},35:{\}function(e,t)\{if(t=t||{},Object.keys(t).forEach(function(t){if(-1===o.indexOf(t))throw new a('Unknown option \"\" is met in definition of \"\" YAML type.')}}),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(e)\{return e\},this.construct=t.construct||function(e)\{return e\},this.instanceOf=t.instanceOf||null,this.predicate=t.predicate||null,this.defaultStyle=t.defaultStyle||null,\}this.styleAliases=r(t.styleAliases||null),s=!s.indexOf(this.kind))throw new a('Unknown kind "'\"+this.kind\"" is specified for "'\"+t\"" YAML type.')\}var 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a=e("./exception"),o=["kind","resolve","construct","instanceOf","predicate","defaultStyle","styleAliases"],t=\{\"scalar\",\"sequence\",\"mapping\"\};t.exports=i,\{\"./exception":25\},35:{\}function(e,t)\{if(t=t||{},Object.keys(t).forEach(function(t){if(-1===o.indexOf(t))throw new a('Unknown option \"\" is met in definition of \"\" YAML type.')}}),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(e)\{return e\},this.construct=t.construct||function(e)\{return e\},this.instanceOf=t.instanceOf||null,this.predicate=t.predicate||null,
Open Source Used In OnPrem2.1 2.2 6628
SwaggerUi.Views.SignatureView({model:e.tagName:"div"});$(".model-signature",this.$el).append(t.render().el) else $(".model-signature",this.$el).html(""");return this });).call(this);

Found in path(s):
* /opt/cola/permits/1014407161_1608569956.84/0/springfox-swagger-ui-2-2-2-jar/META-INF/resources/webjars/springfox-swagger-ui/swagger-ui.min.js
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handlebars v2.0.0

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1.648 spring-security-taglibs 4.0.2.RELEASE

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* /opt/cola/permits/1152322010_1618219315.49/0/spring-security-taglibs-4-0-2-release-sources-2-jar/org/springframework/security/taglibs/authz/AccessControlListTag.java
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jar/org/springframework/security/taglibs/TagLibConfig.java
* /opt/cola/permits/1152322010_1618219315.49/0/spring-security-taglibs-4-0-2-release-sources-2-
jar/org/springframework/security/taglibs/csrf/CsrfMetaTagsTag.java
* /opt/cola/permits/1152322010_1618219315.49/0/spring-security-taglibs-4-0-2-release-sources-2-
jar/org/springframework/security/taglibs/csrf/AbstractCsrfTag.java
* /opt/cola/permits/1152322010_1618219315.49/0/spring-security-taglibs-4-0-2-release-sources-2-
jar/org/springframework/security/taglibs/csrf/CsrfInputTag.java
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* /opt/cola/permits/1152322010_1618219315.49/0/spring-security-taglibs-4-0-2-release-sources-2-
jar/org/springframework/security/taglibs/authz/AbstractAuthorizeTag.java

1.649 snappy-java 1.1.4

1.650 httplib 0.18.1
1.650.1 Available under license:

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1.651 icu 68

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

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPLFLAGS = -D_REENTRANT
LIBCPPFLAGS =
## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srccdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srccdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

## Dependency rules
%.d: $(srccdir)/%.c
@ echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\.c\) $< \|
| sed \"s/\(^.*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n [ -s $@ ] || rm -f $@

%.d: $(srccdir)/%.cpp
@ echo "generating dependency information for $<"
@$\(SHELL\) -ec "$\(GEN\_DEPS\.cc\) $< \|
| sed \"s/\(^.*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n [ -s $@ ] || rm -f $@

## Versioned libraries rules
%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s \$\{<F\} $@
%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s \$\{F\}.$(SO).$(SO\_TARGET\_VERSION) $@
## Bind internal references

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

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

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

## End BSD-specific setup
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1.653 perl-pathtools 3.40 5.el7

1.654 perl-pod-perldoc 3.20-4.el7

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- 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
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1.670 jersey-container-servlet-core 2.17

1.670.1 Available under license:
CDDL+GPL License
http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.671 batik 1.13.0s

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1.672 libjpeg 9d
1.672.1 Available under license:

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 * jchuff.c
 *
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 *
 * This file contains Huffman entropy encoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 *
 * We do not support output suspension for the progressive JPEG mode, since
 * the library currently does not allow multiple-scan files to be written
 * with output suspension.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jchuff.c
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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

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot; in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/coderules.txt

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 * jerror.h
 *
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 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jerror.h

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 * jfdctfst.c
 *
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 */
This file contains a fast, not so accurate integer implementation of the
forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
on each column. Direct algorithms are also available, but they are
much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math,
accuracy is lost due to imprecise representation of the scaled
quantization values. The smaller the quantization table entry, the less
precise the scaled value, so this implementation does worse with high-
quality-setting files than with low-quality ones.
This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
```bash
./configure
make
make test
```
If that doesn't complain, do
```bash
make install
```
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START
==================
Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
./configure --disable-shared
If you want to build libjpeg only as a shared library, say
./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc. To force a particular compiler to be selected, use the CC option, for example
./configure CC='cc'
The same method can be used to include any unusual compiler switches. For example, on HP-UX you probably want to say
./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc. You can override this by saying, for example,
./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than /usr/local by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
---------------------------------------------------------------------------------

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manxjconfig.manxAmiga, Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior
mak*jjpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.dijconfig.djMS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vsjconfig.vcWindows, MS Visual C++
makefile.vsjconfig.vcWindows, MS Visual C++ 6 Developer Studio
makefile.vsjconfig.vcWindows, Visual Studio 2019 (v16)
make*.vc
makefile.b32jconfig.vcWindows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.vmsDigital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.
If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
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These programs can use a Unix-like command line style which supports redirection and piping, like this:

cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile

The simpler "two file" command line style is just

cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
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The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal
location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. “Plenty” means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn’t, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150 Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in “insufficient memory” failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)
Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.
If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t.  Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h.  A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED.  Go back to the configuration step and run ckconfig.c.  (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works.  You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg".  Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout!  If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works.  Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp.  If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all.  It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs.  On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory.  The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places.  (You'll probably need to be root to do this.)  We recommend first saying make -n install.
to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
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Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.
To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data.
and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)

3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in
decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
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Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to
define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function in-line-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -funline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.) After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and
‘test’ makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different
system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading "#pragma novector" just before the loop

    for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c). [This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

    ./configure CC='cc -Aa'

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ecommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.) NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemmnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat
out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdos by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)
When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)
If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.hcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
ifndef FALSE /* in case these macros already exist */
define FALSE 0 /* values of boolean */
#endif
ifndef TRUE
#define TRUE 1
#endif
#define HAVEBOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler
warning if you include both jpeglib.h and windef.h (which windows.h
includes). To suppress the warning, you can put "#ifndef FAR"/"#endif"
around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly
want to modify or replace the error handler module jerror.c, since our
default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;

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for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist)  
  type (_far _pascal *methodname) arglist
For a 32-bit DLL you may want something like
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)extern __declspec(dllexport) type

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmennobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```c
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
    /* Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug. */
    Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).
```

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

- Ot - Og
- Ot - Op
- Ot - Om

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory
model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the source directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   If you get an error message saying that the "NMAKE" command could not be found, execute the command
   "%ProgramFiles%\Microsoft Visual Studio\VC98\Bin\VCVARS32"
   to set the environment for using Microsoft Visual C++ tools, and repeat the NMAKE call.
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
   Alternatively you can use
   NMAKE /f makefile.vs setupcopy-vc6
   This will create renamed copies of the files, which allows to repeat the setup later.
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from the Release folder to an appropriate location on your path.

Microsoft Windows, Visual Studio 2019 (v16):
We include makefiles that should work as project files in Visual Studio 2019 (v16) or later. There is a library makefile that builds the IJG library as a static Win32/x64 library, and application makefiles that build the sample applications as Win32/x64 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt for VS 2019, change to the source directory and execute the command line
   NMAKE /f makefile.vs setup-v16
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
   Alternatively you can use
   NMAKE /f makefile.vs setupcopy-v16
   This will create renamed copies of the files, which allows to repeat the setup later.
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2019 (v16), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
   c) If you want to build x64 code, change the platform setting from Win32 to x64. You can build Win32 and x64 versions side by side.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-32
   for the Win32 build, or on a 64-bit system
   NMAKE /f makefile.vs test-64
   for the x64 build.
5. Move the application .exe files from the Release folder to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
`/configure RANLIB=ar -ts`

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option `-mips2` reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */
/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"? 
 * How about "unsigned short"?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
/*
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see “incomplete types” in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get “missing structure definition” warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
 */
#ifdef _WIN32
#ifdef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

#ifdef JPEG_CJPEG_DJPEG

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjjpeg/djpeg (see cjjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#endif /* JPEG_CJPEG_DJPEG */

#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 cjjpeg.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

#ifdef /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmainct.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 */
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface routines that are used for both
* compression and decompression.
/*

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcomapi.c
No license file was found, but licenses were detected in source scan.

*/

* wrtarga.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrtarga.c
No license file was found, but licenses were detected in source scan.

*/

* jdapimin.c
 *
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcmaster.c

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

/*
 * jdcolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdcolor.c

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

/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */
No license file was found, but licenses were detected in source scan.

/ *
* jpeglib.h
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
* */

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.
* */

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

/ *
* wrrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
  */opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N,[N,...] Set quality ratings
 * -qslots N,[N,...] Set component quantization table selectors
 * -sample HxV,[HxV,...] Set component sampling factors
 */

Found in path(s):
  */opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines,
and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed data stream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.
For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastdc, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.
*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>controller</td>
</tr>
</tbody>
</table>
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can
be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller -->
   |   |-- Downsampling
Main controller -->
   |   |-- Forward DCT, quantize
   |   |-- Coefficient controller -->
   |   |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
  |-- Entropy decoding
  |-- Coefficient controller --|
       |-- Dequantize, Inverse DCT
Main controller --|
       |-- Upsampling
       |-- Postprocessing controller --|
             |-- Colorspace conversion
             |-- Color quantization
             |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this
is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Color space conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with
colorspace conversion???

Note that some high-speed operating modes might condense the entire
postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these
objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules. This is subdivided into
input and output control: jdinput.c controls only input-side processing,
while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source
manager supplied with the library knows how to read from a stdio stream
or from a memory buffer; for other behaviors, the surrounding application
may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coefficient controller's DCT coefficient buffer. Note that this
processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```
The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;  // 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2];  // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;  // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;  // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;  // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***
In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (i.e., the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'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 jdcoeftct.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
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jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a
mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/structure.txt

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

/*
* jaricom.c
* *
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* *
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

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* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jaricom.c
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/ *
* jcapimin.c
* *
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* *
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcapimin.c
No license file was found, but licenses were detected in source scan.

/ *
* jquant2.c
* *
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* *
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jquant2.c

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

/ *
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jidctflt.c
/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/jpegsrc-v9d-tar-gz/jpeg-9d/jdsample.c

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/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows

* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.

* An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
*/opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jcmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
*/opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed GIF format).
*/

/*
* This code is loosely based on giftoppm from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* +-------------------------------------------------------------------+
* | Copyright 1990, David Koblas.                                       |
* | Permission to use, copy, modify, and distribute this software       |
* | and its documentation for any purpose and without fee is hereby    |
* | granted, provided that the above copyright notice appear in all    |
* | copies and that both that copyright notice and this permission     |
* | notice appear in supporting documentation. This software is        |
* | provided "as is" without express or implied warranty.              |
* +-------------------------------------------------------------------+
*/

Found in path(s):
*/
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdct.h
No license file was found, but licenses were detected in source scan.

/ *
* ckconfig.c
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/ckconfig.c
No license file was found, but licenses were detected in source scan.

/ *
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/
Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
*/
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 * 
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 * 
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 * 
 * We also provide FDCT routines with various input sample block sizes for
 * direct resolution reduction or enlargement and for direct resolving the
 * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
 * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
 * 
 * For N<8 we fill the remaining block coefficients with zero.
 * For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2018 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downsampled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
* /

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
* 
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdbmp.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/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * djepg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djepg [options] inputfile outputfile
 * djepg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djepg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djepg, jpegtran).
Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * 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/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in 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 stdin 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.
 */
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

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

/*
 * jversion.h
 *
 * Copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

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

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmerge.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 * R = Y + K1 * Cr
 * G = Y + K2 * Cb + K3 * Cr
 * B = Y + K4 * Cb
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * YCC => RGB color conversion only (YCbCr or BG_YCC).
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases. (For uncommon cases we fall back on the more
 * general code in jdsample.c and jdcolor.c.)
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmтомap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdcolmap.c

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

/*
 * transupp.c
 *
 * Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */
IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjepg" and "djepg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
=================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jpgint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjepg/djepg/etc do use jinclude.h,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include files they
want, and hence won't need jinclude.h.)
C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapi.c: Application program interface: core routines for compression.
jcapistd.c: Application program interface: standard compression.
jdapi.c: Application program interface: core routines for decompression.
jdapistd.c: Application program interface: standard decompression.
jcomapi.c: Application program interface routines common to compression and decompression.
jparam.c: Compression parameter setting helper routines.
jtrans.c: API and library routines for transcoding compression.
jdtrans.c: API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c: Initialization: determines which other modules to use.
jemaster.c: Master control: setup and inter-pass sequencing logic.
jemainct.c: Main buffer controller (preprocessor => JPEG compressor).
jerepct.c: Preprocessor buffer controller.
jecofct.c: Buffer controller for DCT coefficient buffer.
jecolr.c: Color space conversion.
jesample.c: Downsampling.
jedctmgr.c: DCT manager (DCT implementation selection & control).
jfdctint.c: Forward DCT using slow-but-accurate integer method.
jfdctfst.c: Forward DCT using faster, less accurate integer method.
jfdctflt.c: Forward DCT using floating-point arithmetic.
jehuff.c: Huffman entropy coding.
jearith.c: Arithmetic entropy coding.
jemarker.c: JPEG marker writing.
jedstdata.c: Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c: Master control: determines which other modules to use.
jdinput.c: Input controller: controls input processing modules.
jdmainct.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcofct.c: Buffer controller for DCT coefficient buffer.
jdpostct.c: Postprocessor buffer controller.
jdmarker.c: JPEG marker reading.
jdhuff.c: Huffman entropy decoding.
jearith.c: Arithmetic entropy decoding.
jddctmgr.c: IDCT manager (IDCT implementation selection & control).
jidctint.c: Inverse DCT using slow-but-accurate integer method.
jidctfst.c: Inverse DCT using faster, less accurate integer method.
jidctflt.c: Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jqquant1.c One-pass color quantization using a fixed-spacing colormap.
jqquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jererror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c “No backing store”: assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN
====================

Include files:

cdjpeg.h Declarations shared by cjjpeg/djpeg/jpegtran modules.
cerror.h Additional error and trace message codes for cjjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.
C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input.
rdppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output.
wrppm.c PPM/PGM file output.
wrre.c Utah RLE file output.
wtarga.c Targa file output.

RDJPGCOM/WRJPGCOM
===============

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log: Version-to-version change highlights.
example.c: Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure: Unix shell script to perform automatic configuration.
configure.ac: Source file for use with Autoconf to generate configure.
ltnain.sh: Support scripts for configure (from GNU libtool).
config.guess
cconfig.sub
depcomp
missing
ar-lib
compile
install-sh: Install shell script for those Unix systems lacking one.
Makefile.in: Makefile input for configure.
Makefile.am: Source file for use with Automake to generate Makefile.in.
cckconfig.c: Program to generate jconfig.h on non-Unix systems.
jconfig.txt: Template for making jconfig.h by hand.
mak*.*: Sample makefiles for particular systems.
jconfig.*: Sample jconfig.h for particular systems.
libjpeg.map: Script to generate shared library with versioned symbols.
libjpeg.pc.in: libjpeg.pc pkg-config file input for configure.
aclocal.m4: M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*: Sample and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.470/jpegsrc-v9d-tar-gz/jpeg-9d/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jmennobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is respected by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmennobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeft.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* 
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdcoefct.c

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

/*
* jcparam.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcparam.c

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

/*
* wrgif.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in GIF format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary 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 GIFENCOD 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
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that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdtarga.c
No license file was found, but licenses were detected in source scan.

/ *
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemansi.c
No license file was found, but licenses were detected in source scan.

/ *
* jerror.c
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jerror.c
No license file was found, but licenses were detected in source scan.

/ *
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/ *
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
 *
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdpostct.c

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

/ *
* jdmarker.c
* *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmarker.c

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

/ *
* jmемmac.c
* *
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* jmемmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
* *
* If you use jmемmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
* *
* jmемmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
own devices, this code can chew up all available space in the
application's zone, with the exception of the rather small "slop"
factor computed in jpeg_mem_available(). The application can ensure
that more space is left over by reducing max_memory_to_use.

Large images are swapped to disk using temporary files and System 7.0+'s
temporary folder functionality.

Note that jmemmac.c depends on two features of MacOS that were first
introduced in System 7: FindFolder and the FSSpec-based calls.
If your application uses jmemmac.c and is run under System 6 or earlier,
and the jpeg library decides it needs a temporary file, it will abort,
printing error messages about requiring System 7. (If no temporary files
are created, it will run fine.)

If you want to use jmemmac.c in an application that might be used with
System 6 or earlier, then you should remove dependencies on FindFolder
and the FSSpec calls. You will need to replace FindFolder with some
other mechanism for finding a place to put temporary files, and you
should replace the FSSpec calls with their HFS equivalents:

* FSpDelete  -> HDelete
* FSpGetFInfo -> HGetFInfo
* FSpCreate  -> HCreate
* FSpOpenDF  -> HOpen  *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)

(Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
ages-old problem of names starting with a period.)

Contributed by Sam Bushell (jsam@iagu.on.net) and
Dan Gildor (gyld@in-touch.com).

*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemmac.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
================================================================/

README for release 9d of 12-Jan-2020
================================================================/

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.
This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, John Korejwa, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================
This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

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

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

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a
   program, you must acknowledge somewhere in your documentation that
   you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS", and you,
its user, assume the entire risk as to its quality and accuracy.

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software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

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

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

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

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

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

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

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

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG 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


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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

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

The "official" archive site for this software is www.iig.org. The most recent released version can always be found there in directory “files”. This particular version will be archived as http://www.iig.org/files/jpegsrc.v9d.tar.gz, and in Windows-compatible “zip” archive format as http://www.iig.org/files/jpegsr9d.zip.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
===============

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FILE FORMAT WARS
=================
The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in
the assets of these former principals, agents, and beneficiaries of the
foreclosed institutions and corporations.
IJJ asserts what is: that each man, woman, and child has unalienable value
and rights granted and deposited in them by the Creator and not any one of
the people is subordinate to any artificial principality, corporate fiction
or the special interest of another without their appropriate knowing,
willing and intentional consent made by contract or accommodation agreement.
IJJ expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.
IJJ has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame")
is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
*/opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/README
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
  * cjpeg [options] -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
  * /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 * 
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
  * /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cderror.h
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jquant1.c
No license file was found, but licenses were detected in source scan.

/ *
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrbmp.c
No license file was found, but licenses were detected in source scan.
/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jddctmgr.c

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

/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemname.c

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

/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 */
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The 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/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrppm.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library

-----------------------------
The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

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

The rough outline of a JPEG compression operation is:
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (e.g., 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 (e.g., a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
  jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
===================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in
that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().
You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform...
newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
   cinfo.image_width = Width; /* image width and height, in pixels */
   cinfo.image_height = Height;
   cinfo.input_components = 3; /* # of color components per pixel */
   cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

   jpeg_set_defaults(&cinfo);
```
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary
source image info and other parameters, call jpeg_start_compress() to begin
a compression cycle. This will initialize internal state, allocate working
storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

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

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.
jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.
Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate
data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a
little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines()
one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines()
will return up to that many lines. The return value is the number of lines
actually read. The format of the returned data is discussed under "Data
formats", above. Don't forget that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write
out the image in bottom-to-top order, you can use the JPEG library's virtual
array mechanism to invert the data efficiently. Examples of this can be
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far
in the output_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The
image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that
jpeg_read_scanlines() reads at least one scanline per call, until the
bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that
jpeg_read_scanlines() fills it. (The current implementation returns only a
few scanlines per call, no matter how large a buffer you pass.) So you must
always provide a loop that calls jpeg_read_scanlines() repeatedly until the
whole image has been read.

7. jpeg_finish_decompress(...);
After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on
older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG
compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
    boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

    boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.
int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
(requires decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colorsace(), because entropy table assignment in jpeg_set_colorsace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.
int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

```c
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you leave the default values alone.

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
The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **J_COLOR_SPACE out_color_space**
  Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

- **unsigned int scale_num, scale_denom**
  Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

- **boolean quantize_colors**
  If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.
int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you’ll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
of chroma components.
If FALSE, use only DCT size \(<= 8\) and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do\_fancy\_downsampling value in compression.

boolean do\_block\_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable\_1pass\_quant
boolean enable\_external\_quant
boolean enable\_2pass\_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg\_start\_decompress(). You can also call jpeg\_calc\_output\_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg\_start\_decompress().

JDIMENSION output\_width Actual dimensions of output image.
JDIMENSION output\_height
int out\_color\_components Number of color components in out\_color\_space.
int output\_components Number of color components returned.
int rec\_outbuf\_height Recommended height of scanline buffer.

When quantizing colors, output\_components is 1, indicating a single color map
index per pixel. Otherwise it equals out\_color\_components. The output arrays
are required to be output\_width * output\_components JSAMPLEs wide.

rec\_outbuf\_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg\_read\_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec\_outbuf\_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec\_outbuf\_height so as to avoid data copying.
Special color spaces

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

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <-> YCbCr and CMYK <-> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- RGB => BG_YCC
- YCbCr => GRAYSCALE
- YCbCr => BG_YCC
- CMYK => YCCK

This includes the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspsace(), in jcpam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.
Error handling

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When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**

Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**

Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

**emit_message (j_common_ptr cinfo, int msg_level)**

Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:

- **ERREXITn(...)** for fatal errors
- **WARNMSn(...)** for corrupt-data warnings
- **TRACEMSn(...)** for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer’s size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

   JOCTET * next_output_byte; /* => next byte to write in buffer */
   size_t free_in_buffer;      /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager’s empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer’s starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:
init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the
compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply
returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.
Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found
When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
gjp_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
jpeg_start_output()/* start a new output pass */
for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
}
jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce...
output. This is done by calling the routine `jpeg_consume_input()`. The return value is one of the following:

- **JPEG_REACHED_SOS**: reached an SOS marker (the start of a new scan)
- **JPEG_REACHED_EOI**: reached the EOI marker (end of image)
- **JPEG_ROW_COMPLETED**: completed reading one MCU row of compressed data
- **JPEG_SCAN_COMPLETED**: completed reading last MCU row of current scan
- **JPEG_SUSPENDED**: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
```
absorb any waiting input by calling jpeg_consume_input()
jpeg_start_output(&cinfo, cinfo.input_scan_number);
...
jpeg_finish_output()
if (jpeg_input_complete(&cinfo) &&
    cinfo.input_scan_number == cinfo.output_scan_number)
    break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with
buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn’t fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.
When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)
Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not
using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table",...
which normally is initialized to FALSE. For each table used by the image, the
header-writing process emits the table and sets sent_table = TRUE unless it is
already TRUE. (In normal usage, this prevents outputting the same table
definition multiple times, as would otherwise occur because the chroma
components typically share tables.) Thus, setting this field to TRUE before
calling jpeg_start_compress() will prevent the table from being written at
all.

If you want to create a "pure" abbreviated image file containing no tables,
just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the
tables. If you want to emit some but not all tables, you'll need to set the
individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress()
with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress()
will force all the sent_table fields to FALSE. (This is a safety feature to
prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you
normally would, but instead of calling jpeg_start_compress() and so on, call
jpeg_write_tables(&cinfo). This will write an abbreviated datastream
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.
In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL*/
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL*/
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

---

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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 downsamped 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 downsamped 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 downsamped 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 downsamped row must contain a multiple of DCT_h_scaled_size valid samples, and there must be a multiple of DCT_v_scaled_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
dimensions of the data you are supplying, it's wise to set them
explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*min_DCT_v_scaled_size sample rows of each component. The passed
num_lines value must be at least max_v_samp_factor*min_DCT_v_scaled_size, and
the return value will be exactly that amount (or possibly some multiple of
that amount, in future library versions). This is true even on the last call
at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
cinfo->comp_info[i].width_in_blocks *
cinfo->comp_info[i].DCT_h_scaled_size samples per row
cinfo->comp_info[i].height_in_blocks *
cinfo->comp_info[i].DCT_v_scaled_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCT_scaled_size samples.

An example may help here. Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampling_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

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and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_vsamp_factor*min_DCT_v_scaled_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array
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 completed_passes + (pass_counter/pass_limit)

--------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

------------------
This section covers some key facts about the JPEG library’s built-in memory manager. For more info, please read structure.txt’s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don’t want the library to use malloc() and free() for some reason).

Some data is allocated “permanently” and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.

There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library’s minimum space requirements to process an image depend on the image’s width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()’d. Images bigger than memory can be processed only if your system supports virtual memory.

The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it’s too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)
The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
-----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.) Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.
On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also
malloc about 20K-30K of near heap space while executing (and lots of far
heap, but that doesn't count in this calculation). This figure will vary
depending on selected operating mode, and to a lesser extent on image size.
There is also about 5Kb-6Kb of constant data which will be allocated in the
near data segment (about 4Kb of this is the error message table).
Thus you have perhaps 20K available for other modules' static data and near
heap space before you need to go to a larger memory model. The C library's
static data will account for several K of this, but that still leaves a good
deal for your needs. (If you are tight on space, you could reduce the sizes
of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to
1K. Another possibility is to move the error message table to far memory;
this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be
released until you destroy the JPEG object. This is only an issue if you
save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large
images. The most memory-intensive case is decompression with two-pass color
quantization, or single-pass quantization to an externally supplied color
map. This requires a 128Kb color lookup table plus strip buffers amounting
to about 40 bytes per column for typical sampling ratios (eg, about 25600
bytes for a 640-pixel-wide image). You may not be able to process wide
images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model
compiler, such as DJGPP or Watcom C. We highly recommend flat model if you
can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/ *
* jcinit.c
* *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains initialization logic for the JPEG compresssor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* *
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcinit.c
No license file was found, but licenses were detected in source scan.
/*
 * jcarith.c
 *
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcarith.c

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Source Files
------------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <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

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

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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

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

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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

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That's all there is to it!

# Exactly the same as t-mips, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade ssd csd harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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Version 2, June 1991

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

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

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If distribution of object code is made by offering access to copy
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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That's all there is to it!

# BSD on the PA already has ANSI include files which are c++ compatible.

f2c is a Fortran to C converter under development since 1990 by
David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies)
Stu Feldman (then at Bellcore, now at IBM)
Mark Maimone (Carnegie-Mellon University)
Norm Schryer (then AT&T Bell Labs, now AT&T Labs)
Please send bug reports to dmg@research.bell-labs.com.

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Jan 21, 2002

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* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/model/DRLOutput.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/parser/DefaultTemplateColumn.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/parser/LongCell.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/model/DRLJavaEmitter.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/model/Queries.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/model/SnippetBuilder.java
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* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources.jar/org/drools/template/parser/BooleanColumn.java
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* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
jar/org/drools/template/parser/DefaultTemplateRuleBase.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
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* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
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jar/org/drools/template/parser/TemplateRuleBase.java
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* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
jar/org/drools/template/parser/TemplateDataListener.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
jar/org/drools/template/parser/Column.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
jar/org/drools/template/parser/Row.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-
jar/org/drools/template/parser/ColumnFactory.java
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* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-jar/org/drools/template/model/Package.java
* /opt/ws_local/PERMITS_SQL/1077388238_1596807483.46/0/drools-templates-5-6-0-final-sources-jar/org/drools/template/model/DeclaredType.java

1.686 glib 2.54.2 2.el7

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1.689 netty-codec 4.0.33.Final

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* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-
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* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/compression/EncoderException.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/compression/CompactObjectOutputStream.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
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* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshalerProvider.java
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* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshalerProvider.java
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshalerProvider.java
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 */

/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain</a>
 * Base64 Encoder/Decoder</a>.
 */

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* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-
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/**
* Enumeration of supported Base64 dialects.
*<p>
* The internal lookup tables in this class has been derived from
*<a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is \tt12 (0x0C)\tt which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +--------+----------------+ ----->+--------+----------------+
 * | Length | Actual Content |----->| Length | Actual Content |
 * [ 0x000C | "HELLO, WORLD"] [ 0x000C | "HELLO, WORLD"]
 * +--------+----------------+ +--------+----------------+
 */


* <h3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* [ @link ByteBuf#readableBytes() ], you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
* 
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
* 
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>   = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
* +-----------------+-----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
* +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
* +-----------------+-----------------+
* </pre>
*
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1111263577_1606893313.29/0/netty-codec-4-0-33-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

1.690 libxdmcp 1.1.2-6.el7
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1.691 jetty-xml 9.4.5.v20170502

1.692 kerberos 1.15.1-50.el7

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    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
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  jar/com/atomikos/icatch/jta/hibernate3/AtomikosConnectionProvider.java

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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/analysis/ExtrinsicInterpretation.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/xml/Processor.java
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jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/Traceable.java

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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/store/offheap/BasicOffHeapValueHolder.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/transactions/xa/internal/SerializableXid.java
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jar/org/ehcache/impl/internal/TimeSourceServiceFactory.java
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*/opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1.jar/org/ehcache/impl/internal/concurrent/package-info.java
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*/opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1.jar/org/ehcache/core/internal/store/offheap/AbstractOffHeapStore.java
*/opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1.jar/org/ehcache/impl/config/loaderwriter/writebehind/DefaultWriteBehindConfiguration.java
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*/opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1.jar/org/ehcache/impl/config/event/CacheEventDispatcherFactoryConfiguration.java
*/opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1.jar/org/ehcache/impl/internal/store/disk/DiskWriteThreadPool.java
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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/util/ThreadFactoryUtil.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/core/CacheConfigurationChangeEvent.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/config/loaderwriter/DefaultCacheLoaderWriterProviderConfiguration.java
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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/event/EventType.java

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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/config/CacheRuntimeConfiguration.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/store/heap/holders/OnHeapValueHolder.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/core/internal/util/Functions.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/core/internal/resilience/RobustResilienceStrategy.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/transactions/xa/internal/journal/PersistentJournal.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/events/ClosableStoreEventSink.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/transactions/xa/internal/StoreEventSourceWrapper.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/event/CacheEventListener.java
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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/sizeof/NoopSizeOfEngine.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/jsr107/Eh107Configuration.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/transactions/xa/internal/xml/TxCacheServiceConfigurationParser.java

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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/SystemUtils.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/MemberUtils.java
* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/ConstructorUtils.java
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* /opt/cola/permits/1150871909_1617712750.0/0/ehcache-3-0-0-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/ClassUtils.java

1.710 jdk 1.8.0u301

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A copy of the Oracle modified WebKit library source code is located in the following OpenJDK git repository:

https://github.com/openjdk/jfx

You can use git to clone the repository or you can browse the source using a web browser. The root directory of the WebKit source code is here:

rt/modules/javafx.web/src/main/native/

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```
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```
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```

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You can use git to clone the repository or you can browse the
source using a web browser. The root directory of the GStreamer source
code is here:

```
rt/modules/javafx.media/src/main/native/gstreamer/gstreamer-lite/
```

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```
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The specification of DOM Level 3's various parts is at:
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http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

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*/

1.716 cracklib 2.9.0 11.el7
1.716.1 Available under license:

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Version 2.1, February 1999

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the version number 2.1.]

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

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

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Modifications: Added cronjob, configuration file, and man pages.

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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. 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
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
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
-----------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
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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timeframe.
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> 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
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>
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> 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:
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> >
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> > make the change now ?
> >
> > yes. go for it. thanks++

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

--------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------------

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with smtp (Exim 4.50)
id 11cOcX-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-56FBFEBE6E9F@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-Original-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
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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

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

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

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

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
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> libraries under
> 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
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the original license (before moving to sourceforge -- aka, 2.7) was not
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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
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applications are also GPL-2 which imo is just wrong. it isnt the place of =
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library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

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Nathan Neulinger EMail: nneul@um...
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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> > additional code, so whatever licensing y'all come up with is fine
> > by me.

I am sympathetic. Guys, what do you reckon?

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
On Monday 28 January 2008, Nalin Dahyabhai wrote:

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	Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
	Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
	by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
	by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/HandlerMapping.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/mvc/CancellableFormController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/mvc/SimpleFormController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/tags/TransformTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1.jar/org/springframework/web/servlet/mvc/RequestToViewNameTranslator.java
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/support/AbstractControllerUrlHandlerMapping.java
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web.servlet/view/jasperreports/JasperReportsHtmlView.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web.servlet/view/jasperreports/JasperReportsXlsView.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
* a specific entry in the model via the { @link #setSourceKey sourceKey } property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See { @link #getSourceTypes() here}
* for more details.
* 
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure { @link #setOutputProperties output properties}
* to be passed to the Transformer.
* 
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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jar/org/springframework/web/servlet/view/velocity/VelocityConfig.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-
jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
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jar/org/springframework/web/servlet/ThemeResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-
jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-
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Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/LICENSE.rst
No license file was found, but licenses were detected in source scan.

---

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

---

import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
        ],
    }

    setup(**arguments)
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]

'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.727 apache-servicemix-bundles-antlr
2.7.7_5
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The primary ANTLR guy:

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1.734 cryptography 2.9

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1.748 cglib 2.2

1.749 compat-glibc 2.12 4.el7.centos

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1.753 slf4j-log4j 1.7.31

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* /opt/cola/permits/1181136276_1626413298.09/0/slf4j-log4j12-1-7-31-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java
* /opt/cola/permits/1181136276_1626413298.09/0/slf4j-log4j12-1-7-31-sources-jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1181136276_1626413298.09/0/slf4j-log4j12-1-7-31-sources-jar/org/slf4j/impl/Log4jMDCAdapter.java
* /opt/cola/permits/1181136276_1626413298.09/0/slf4j-log4j12-1-7-31-sources-jar/org/slf4j/impl/Log4jLoggerAdapter.java
* /opt/cola/permits/1181136276_1626413298.09/0/slf4j-log4j12-1-7-31-sources-jar/org/slf4j/impl/Log4jMDCAdapter.java
1.754 setup 2.8.71-9.el7

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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<script type="text/javascript">--><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
    if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
</script>
1.759 hawtdispatch 1.21

1.760 tuned 2.11.0-11.el7_9

1.760.1 Available under license:

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<head>
<link rel="stylesheet" type="text/css" href="styles.css" />
<title>uthash: a hash table for C structures</title>
</head>
<body>

<div id="banner">
<img src="banner.png" alt="uthash: a hash table for C structures" />
</div> <!-- banner -->

<div id="topnav">
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1.766 libteam 1.29-1.el7

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at runtime a
copy of the library already present on the user's computer system,
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c) Accompany the work with a written offer, valid for at
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than the cost of performing this distribution.

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

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

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

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   (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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derivative of it, under Section 2) in object code or executable form
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it with the complete corresponding machine-readable source code, which
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If distribution of object code is made by offering access to copy
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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
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/impl/MessageIDImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/impl/ProblemHeaderQNameImpl.java
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jar/org/opensaml/util/resource/Resource.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
jar/org/opensaml/util/storage/StorageService.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
jar/org/opensaml/util/resource/ResourceException.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
jar/org/opensaml/util/resource/ResourceChangeListener.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
jar/org/opensaml/util/resource/FilesystemResource.java

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*/
/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 *
 * @return whether the transport represents a confidential connection
 */
/**
 * Sets whether the transport represents a confidential connection.
 *
 * @param isConfidential whether the transport represents a confidential connection
 */

Found in path(s):
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
jar/org/opensaml/ws/transport/Transport.java
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/CertificateNameOptions.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/http/HTTPInTransport.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/http/HTTPRequestAdapter.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/message/BaseMessageContext.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/OutTransport.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/HTTPRule.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/message/handler/HandlerException.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/http/HTTPTransportUtils.java
jar/org/opensaml/ws/soap/common/SOAPException.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/MandatoryIssuerRule.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/http/HTTPTransport.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/MandatoryAuthenticatedMessageRule.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/http/HttpServletResponseAdapter.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/SecurityPolicyResolver.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/message/encoder/MessageEncodingException.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/message/MessageException.java
* /opt/cola/permits/1141131886_1614934083.16/0/opensws-1-4-2-1-sources-1-jar/org/opensaml/ws/transport/InTransport.java

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 */
/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 *
 * @param messageContext the current message context
 *
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 *
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its ability
 * to provide message confidentiality.
 */
Found in path(s):
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
  jar/org/opensaml/ws/message/encoder/MessageEncoder.java
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 */
/** Confidential flag. */

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  jar/org/opensaml/ws/transport/BaseTransport.java
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<HTML>
<BODY>
<p>
</p>
<p>
</p>
<p>
The security token profiles currently supported are:
</p>
<ul>
</ul>
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/DetailMarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/SecurityPolicyException.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/EnvelopeImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultCodeImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/HeaderBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/EnvelopeUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultStringImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/common/AbstractExtensibleSOAPObject.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/Fault.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/DetailBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/BodyUnmarshalller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/EnvelopeMarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/BaseTrustEngineRule.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/ServletRequestX509CredentialAdapter.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/EnvelopeUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/HeaderMarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/Header.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/encoder/http/HTTPSOAP11Encoder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/HeaderMarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/HeaderImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/util/URLBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/FaultCode.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultActorImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/SecurityPolicyRule.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/ClientCertAuthRule.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/FaultString.java
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/AddressBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/AddressImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/client/BasicSOAPMessageContext.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/client/http/TLSProtocolSocketFactory.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/RequestedSecurityToken.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/resource/PropertyReplacementResourceFilter.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/resource/AbstractFilteredResource.java
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1.773 decorator 3.4.0

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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.py

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	ry:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error""
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:1])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
      version=VERSION,
      description='Better living through Python with decorators',
      long_description=open('README.txt').read(),
      author='Michele Simionato',
      author_email='michele.simionato@gmail.com',
      url='http://pypi.python.org/pypi/decorator',
      license='BSD License',
      package_dir = {'': 'src'},
      py_modules = ['decorator'],
Decorator module
=================

Author: Michele Simionato
E-mail: michele.simionato@gmail.com
Requires: Python 2.4+
Download page: http://pypi.python.org/pypi/decorator
Installation: `easy_install decorator`
License: BSD license

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

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/
Testing
--------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

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- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository
----------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:
http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1.tar.gz/decorator-3.4.0/README.txt
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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

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

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which will install just the module on your system. Notice that
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If you prefer to install the full distribution from source, including
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http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator
Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
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Classifier: Programming Language :: Python :: 3
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1.774 diffstat 1.57 4.el7
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   when there is no Makefile.

   This script is compatible with the BSD install script, but was written
   from scratch. It can only install one file at a time, a restriction
   shared with many OS's install programs.

   Files: debian/ *
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1.775 activemq-amqp 5.15.14
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work containing portions of the Library, and distribute that work
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modification of the work for the customer’s own use and reverse
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of these things:

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

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

@item
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least three years, to give the same user the materials
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than the cost of performing this distribution.

@item
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specified materials from the same place.

@item
Verify that the user has already received a copy of these
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@end enumerate

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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
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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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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.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work 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:

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

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

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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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.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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   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 of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.788 yum 3.4.3-158.el7.centos

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py2015-01-19 07:44:35.567107008 -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:
+            # XXX: evaluate
+        @ @ -434,16 +438,29 @ @
+        class UpdateMetadata(object):
+            name = oldpkgtup[0]
+            arch = oldpkgtup[1]
+            ret = []
+            notices = set()
+            for notice in self.get_notices(name):
+                for upkg in notice['pkglist']:
+                    for pkg in upkg['packages']:
+                        if pkg['name'] == name and pkg['arch'] in self.archlist:
+                            other_arch = True
+                        else:
+                            continue
+                        other_arch_list = []
+                        notices.add(notice)
+                        ret.append((pkgtup, notice))
+                        continue
+                    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                        continue
+                    ret.append((pkgtup, notice))
+                    if other_arch:
+                        other_arch_list.append((pkgtup, notice))
+                        else:
+                            continue
+                        if notice not in notices and name and pkg['arch'] in self.archlist:
+                            other_arch = True
+                        else:
+                            continue
+                        pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                  pkg['version'], pkg['release'])
+                        if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                            if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                other_arch = True
+                            else:
+                                continue
+                            pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                      pkg['version'], pkg['release'])
+                            if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                                continue
+                            ret.append((pkgtup, notice))
+                            if other_arch:
+                                other_arch_list.append((pkgtup, notice))
+                                else:
+                                    ret.append((pkgtup, notice))
+                            notices.add(notice)
+                        for pkgtup, notice in other_arch_list:
+                            if notice not in notices:
+                                ret.append((pkgtup, notice))
+                            ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
+                            return ret

---

import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage
def safe_iterparse(filename, logger=None):

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### 1.789 python-setuptools 39.2.0

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### 1.790 jetty-util 8.1.16.v20140903

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 * @(#)UnixCrypt.java 0.9 96/11/25
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 * */

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 *         2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 *         2=DC_CONFIDENTIAL
 */

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* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources-
  jar/org/eclipse/jetty/util/TypeUtil.java
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* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources.jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources.jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java
* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources.jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources.jar/org/eclipse/jetty/util/MultiMap.java
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* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources.jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java
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* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources-jar/org/eclipse/jetty/util/log/Log.java
* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources-jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java
* /opt/cola/permits/1001068917_1608542395.0/0/jetty-util-8-1-16-v20140903-sources-jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java

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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard [link java.lang.Appendable] and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to [link #append(byte)] may be needed before state a character is appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
 *
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### 1.791 elfutils 0.176-4.el7

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

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This option is useful when you wish to copy part of the code of
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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
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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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1.793 tzdata 2021a-1.el7

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1.794 maven-artifact-manager 2.0.8

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
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  jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer} reference through WebSphere's proprietary <code>AdminServiceFactory</code> API, available on WebSphere 5.1 and higher.
* <p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean}, which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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1.813 tcsh 6.18.01-17.el7_9.1
1.813.1 Available under license:

People who have contributed to tcsh for win32 with bugfixes, functionality, and other useful pieces of code. If I've left you out, please let me know!

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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

Open Source Used In OnPrem2.1 2.2 8215
#ifndef _h_config
#define _h_config
/******************** System dependant compilation flags ********************/
/
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX
/
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX) job control facilities.
*/
#undef POSIXJOBS
/
* VFORK This machine has a vfork().
* It used to be that for job control to work, this define was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK
/
* BSDJOBS You have BSD-style job control (both process groups and a tty that deals correctly)
*/
#define BSDJOBS
/
* BSDTIMES You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix *(OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES
/
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT
Open Source Used In OnPrem 2.1 2.2

1.814 nss-pem 1.0.3 4.el7

1.814.1 Available under license:

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Version 1.1

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  jar/org/springframework/test/ConditionalTestCase.java
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1.827 jaxb-core 2.2.7

1.828 open-vm-tools 11.0.5-3.el7_9.2

1.828.1 Available under license:

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Open-vm-tools v10.3.0

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Version 3, 29 June 2007

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1.837 springfox-schema 2.2.2

1.838 api-ldap-schema-converter 1.0.2
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Found in path(s):

* /opt/cola/permits/1152322776_1618219263.03/0/spring-instrument-tomcat-3-0-7-release-sources-3-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /opt/cola/permits/1152322776_1618219263.03/0/spring-instrument-tomcat-3-0-7-release-sources-3-jar/org/springframework/instrument/classloading/tomcat/TomcatInstrumentableClassLoader.java
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

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

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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

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

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

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   b) You must cause the files modified to carry prominent notices 
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   c) You must cause the whole of the work to be licensed at no 
charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If 
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themselves, then this License, and its terms, do not apply to those 
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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b) Give prominent notice with the combined library of the fact
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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1.855 google-api-client 1.22.0

1.856 mariadb 5.5.56 2.el7
1.856.1 Available under license :

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

'#-------------------------------------------------------------------------------BS_STVARS_040_02#-------------------------------------------------------------------------------#
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_03#-------------------------------------------------------------------------------' 
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_04#-------------------------------------------------------------------------------' 
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_05#-------------------------------------------------------------------------------' 
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of
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is quite different from the ordinary General Public License. We use
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If you have questions, don't hesitate to ask the author(s) for more information.

```
# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string

# Creation Date: 2008-02-07
# Author : Sharique Abdullah

# Description: Test Cases of Dynamic System Variable license
# that checks the behavior of this variable in the following ways
# * Value Check
# * Scope Check

```
--echo '#---------------------BS_STVARS_040_01----------------------#'
# Displaying default value
#
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set
#
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable
#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'
# Check if accessing variable with and without GLOBAL point to same variable

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
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* /opt/cola/permits/1152322877_1618219054.76/0/spring-aspects-4-2-1-release-sources-2-
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1.882 jdom 1.1.3

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$Id: JDOMException.java,v 1.26 2008/12/10 00:59:51 jhunter Exp $  

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Found in path(s):
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$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-
jar/org/jdom/transform/XSLTransformException.java
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/*--

$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/ContentList.java
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$Id: Filter.java,v 1.10 2007/11/10 05:29:00 jhunter Exp$

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/filter/Filter.java
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1- jar/org/jdom/adapters/XercesDOMAdapter.java
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/IllegalAddException.java
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1.jar/org/jdom/adapters/CrimsonDOMAdapter.java
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$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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$Id: XMLOutputer.java,v 1.117 2009/07/23 05:54:23 jhunter Exp $

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Std: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp $

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$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp $

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$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp $

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Found in path(s):
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/DOMAdapter.java
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$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp$

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$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Attribute.java
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$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp $

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$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp $

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$Id: IllegalTargetException.java,v 1.15 2007/11/10 05:28:59 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/IllegalTargetException.java
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$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/UncheckedJDOMFactory.java
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$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Content.java
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$Id: SAXBuilder.java,v 1.93 2009/07/23 06:26:26 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/SAXBuilder.java
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$Id: AbstractFilter.java,v 1.6 2007/11/10 05:29:00 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/filter/AbstractFilter.java

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$Id: DefaultJDOMFactory.java,v 1.7 2007/11/10 05:28:58 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/DefaultJDOMFactory.java
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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/OracleV1DOMAdapter.java
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/"*/

$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp$

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Text.java

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$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp$

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$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp $

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$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp $

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$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp $

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$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp $

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*/

Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/EscapeStrategy.java

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

/*--

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*/

Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Parent.java

1.883 unzip 6.0 21.el7

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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

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-----

The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------
1.884 python 2.7.16

1.885 hesiod 3.2.1 3.el7

1.885.1 Available under license:

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1.886 bc 1.06.95 13.el7

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/***************************************************************************
  * ncat_main.c -- main function: option parsing and checking, dispatching *
  * to mode-specific functions.                                          *
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/process/core/datatype/DataType.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/common/EventSupport.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/common/AbstractWorkingMemory.java
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  jar/org/drools/rule/BaseAnnotatedAsset.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/agent/impl/FailureDetectingSystemEventListener.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
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  jar/org/drools/factmodel/EnumLiteralDefinition.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/factmodel/traits/TraitCoreWrapperClassBuilderImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/factmodel/EnumClassBuilder.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5.6.0-final-sources-jar/org/drools/event/knowledgebase/impl/BeforeFunctionRemovedEventImpl.java
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* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/http11/InternalNioInputBuffer.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/modeler/Util.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/SocketWrapper.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/SendfileState.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/ByteBufferHolder.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/http/FastHttpDateFormat.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/http11/HeadersTooLargeException.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/OutputBuffer.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/AjpProtocol.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/ProtocolHandler.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/UpgradeToken.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/ssl/OpenSSLConfigurationParser.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/Response.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/ajp/AjpProtocol.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/ProtocolHandler.java
* /opt/cola/permits/1152321949_1618219330.4/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/http/ServerCookies.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/Request.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Utility.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/ajp/AjpAprProtocol.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/ajp/AjpProcessor.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/ajp/AjpAprProcessor.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/http11/upgrade/AprServletInputStream.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/http11/upgrade/AprServletOutputStream.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/jsse/openssl/Authentication.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/http/parser/MediaTypeCache.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/http11/InternalAprOutputBuffer.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/http/MimeHeaders.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/http11/upgrade/AbstractProcessor.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/NioEndpoint.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/SSLUtil.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/http/ServerCookie.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/ajp/AjpNio2Processor.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/net/jsse/openssl/EncryptionLevel.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/AbstractProcessor.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/tomcat/util/bcel/classfile/ConstantUtf8.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1.jar/org/apache/coyote/RequestInfo.java
1.899 spring-jdbc 4.2.1.RELEASE

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* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/tomcat/util/net/AprEndpoint.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/tomcat/util/log/CaptureLog.java
* /opt/cola/permits/1152321949_1618219330.4/0/tomcat-coyote-8-0-53-sources-1-jar/org/apache/coyote/ajp/AjpMessage.java
* /opt/cola/permits/1152321949_1618219330.4/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /opt/cola/permits/1152321949_1618219330.4/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /opt/cola/permits/1152321949_1618219330.4/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/BadSqlGrammarException.java
* /opt/cola/permits/1152321949_1618219330.4/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/object/SqlCall.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/support/SqlValue.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/datasource/lookup/xml/SqlXmlHandler.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/datasource/lookup/xml/XmlBinaryStreamProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/datasource/lookup/xml/SqlParameterSourceUtils.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractorAdapter.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2.jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/nativejdbc/JBossNativeJdbcExtractor.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java

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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java

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*/
/**
 * @link LobHandler} implementation for Oracle databases. Uses proprietary API
 * to create [@code oracle.sql.BLOB} and [@code oracle.sql.CLOB}
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 * 
 * While most databases are able to work with [@link DefaultLobHandler],
 * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
 * Blob/Clob instances created via its own proprietary BLOB/CLOB API,
 * and additionally doesn't accept large streams for PreparedStatement's
 * corresponding setter methods. Therefore, you need to use a strategy like
 * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
 * (which still supports access to Oracle 9i databases).
 * 
 * NOTE: As of Oracle 10.2, [@link DefaultLobHandler} should work equally
 * well out of the box. On Oracle 11g, JDBC 4.0 based options such as
 * [@link DefaultLobHandler#setStreamAsLob} and [@link DefaultLobHandler#setCreateTemporaryLob}
 * are available as well, rendering this proprietary OracleLobHandler obsolete.</b>
 * Also, consider upgrading to a new driver even when accessing an older database.
 * See the [@link LobHandler} interface javadoc for a summary of recommendations.
 * 
 * Needs to work on a native JDBC Connection, to be able to cast it to
 * [@code oracle.jdbc.OracleConnection]. If you pass in Connections from a
 * connection pool (the usual case in a Java EE environment), you need to set an
 * appropriate [@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
 * to allow for automatic retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 * 
 * Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
 * this as eager-initializing singleton if you do not want to depend on the Oracle
 * JAR being in the class path: use "lazy-init=true" to avoid this issue.
 *
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 04.12.2003
 * @see DefaultLobHandler
 * @see #setNativeJdbcExtractor
 * @deprecated in favor of [@link DefaultLobHandler} for the Oracle 10g driver and
 * higher. Consider using the 10g/11g driver even against an Oracle 9i database!
 * [@link DefaultLobHandler#setCreateTemporaryLob} is the direct equivalent of this
 * OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
 * That said, in most cases, regular DefaultLobHandler setup will work fine as well.
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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java
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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
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  jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
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 */
/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 */
@Author Rod Johnson
@Author Thomas Risberg
@see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
@see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
/**
 * Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never { @code null })
*/

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/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
* <p>This package and related packages are discussed in Chapter 9 of
* by Rod Johnson (Wrox, 2002).
*/

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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/support/lob/TemporaryLobCreator.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/lob/AbstractLobHandler.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java

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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/support/lob/AbstractLobHandler.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java

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/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */
jar/org/springframework/jdbc/support/lob/LobCreator.java
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/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBjects.
 * Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
 * { @link OracleLobHandler }; most other databases should be able to work
 * with the provided { @link DefaultLobHandler }.
 *
 * <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
* 
* <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
* which by default delegates to JDBC's direct accessor methods, avoiding the
* {@code java.sql.Blob} and {@code java.sql.Clob} API completely.
* [{@link DefaultLobHandler} can also be configured to access LOBs using
* [{@code PreparedStatement.setBlob/setClob} (e.g. for PostgreSQL), through
* setting the [{@link DefaultLobHandler#setWrapAsLob "setWrapAsLob"} property.
* 
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* [{@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g+ JDBC driver will work with [{@link DefaultLobHandler}]
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use [{@link OracleLobHandler}] at all anymore.
* 
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
* 
* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
* <ul>
* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use [{@link DefaultLobHandler}],
* potentially with [{@code streamAsLob=true}] if your database driver requires that
* hint when populating a LOB field. Fall back to [{@code createTemporaryLob=true}]
* if you happen to run into LOB size limitations with your (Oracle) database setup.
* <li>Oracle 10g driver:</b> Use [{@link DefaultLobHandler}] with standard setup.
* <li>On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
* DefaultLobHandler should work with standard setup out of the box. Alternatively,
* consider using the proprietary [{@link OracleLobHandler}] (see below).
* <li>Oracle 9i driver:</b> Use [{@link OracleLobHandler}] with a connection-pool-specific
* [{@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor}]
* PostgreSQL:</b> Configure [{@link DefaultLobHandler}] with [{@code wrapAsLob=true}],
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain [{@link DefaultLobHandler}].
* </ul>
* 
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*

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/**
* Strategy interface for translating between [ @link SQLException SQLExceptions]
* and Spring's data access strategy-agnostic [ @link DataAccessException]
* hierarchy.
* *
* Implementations can be generic (for example, using
* [ @link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
* *
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
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  jar/org/springframework/jdbc/object/BatchSqlUpdate.java

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  jar/org/springframework/jdbc/core/StatementCreatorUtils.java
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  jar/org/springframework/jdbc/core/JdbcOperations.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-
  jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
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* /opt/cola/permits/1152321435_1618219418.27/0/spring-jdbc-4-2-1-release-sources-2-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
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1.910 libxi 1.7.9-1.el7

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/misc/JTreeStringTemplatePanel.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/misc/StringTemplateTreeView.java

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package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** A parser used to break up a single template into chunks, text literals * and attribute expressions. */
class TemplateParser extends Parser;

{  protected StringTemplate self;

    public void reportError(RecognitionException e) {  
        StringTemplateGroup group = self.getGroup();  
        if ( group==StringTemplate.defaultGroup ) {
            self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
        }
        else {
            self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
        }
    }

    template[StringTemplate self]
    {
        this.self = self;
    }
if (LA(1)!=ELSE && LA(1)!=ENDIF) {
    self.addChunk(new NewlineRef(self,nl.getText()));
}

action[self] =

if (c!=null) c.setSubtemplate(subtemplate);

if (c!=null) c.addElseIfSubtemplate(ec, elseifSubtemplate);

}
ELSE
{
// create and precompile the subtemplate
StringTemplate elseSubtemplate =
new StringTemplate(self.getGroup(), null);
elseSubtemplate.setEnclosingInstance(self);
elseSubtemplate.setName("else_subtemplate");
}


template[elseSubtemplate]
{if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}
)

ENDIF

|rr:REGION_REF
{
// define implicit template and
// convert <@r()> to <region__enclosingTemplate__r()>
String regionName = rr.getText();
String mangledRef = null;
boolean err = false;
// watch out for <@super.r()>; that does NOT def implicit region
// convert to <super.region__enclosingTemplate__r()>
if ( regionName.startsWith("super.") ) {
//System.out.println("super region ref "+regionName);
String regionRef =
regionName.substring("super.".length(),regionName.length());
String templateScope =
self.getGroup().getUnMangledTemplateName(self.getName());
StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
if ( scopeST==null ) {
self.getGroup().error("reference to region within undefined template: "+
templateScope);
err=true;
}
if ( !scopeST.containsRegionName(regionRef) ) {
self.getGroup().error("template "+templateScope+" has no region called "+
regionRef);
err=true;
}
else {
mangledRef =
self.getGroup().getMangledRegionName(templateScope,regionRef);
mangledRef = "super."+mangledRef;
}
}
else {
//System.out.println("region ref "+regionName);
StringTemplate regionST =
        self.getGroup().defineImplicitRegionTemplate(self,regionName);
        mangledRef = regionST.getName();
}

if ( !err ) {
// treat as regular action: mangled template include
String indent = ((ChunkToken)rr).getIndentation();
ASTExpr c = self.parseAction(mangledRef+"()");
c.setIndentation(indent);
self.addChunk(c);
}
}

|rd:REGION_DEF
{
String combinedNameTemplateStr = rd.getText();
int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
if ( indexOfDefSymbol>=1 ) {
String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
String template =
        combinedNameTemplateStr.substring(indexOfDefSymbol+3,
combinedNameTemplateStr.length());
StringTemplate regionST =
        self.getGroup().defineRegionTemplate(self,
regionName,
template,
StringTemplate REGION_EMBEDDED);
// treat as regular action: mangled template include
String indent = ((ChunkToken)rd).getIndentation();
ASTExpr c = self.parseAction(regionST.getName()+"()");
c.setIndentation(indent);
self.addChunk(c);
} else {
    self.error("embedded region definition screwed up");
}
}

/** Break up an input text stream into chunks of either plain text
*  or template actions in "$...$".  Treat IF andENDIF tokens
*  specially.
*/
class DefaultTemplateLexer extends Lexer;
options {
    k=7; // see "$endif$"
    charVocabulary = '\u0001'..'uFFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
            LA(i+5)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
            LA(i+5)=='f'&&LA(i+6)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)=='\r'&&LA(i+1)=='\n')||LA(i)=='\n';
}

LITERAL
   :   {LA(1)!='\r'&&LA(1)!='\n'}?
       ( options { generateAmbigWarnings=false;}
           int loopStartIndex=text.length();
           int col=getColumn();
           }
       :   '\!' '\$' // allow escaped delimiter
           | '\!' '\\' // always replace \ with \\
           | '\!' '\~$' // otherwise ignore escape char
           | ind:INDENT
if ( col==1 && LA(1)=='$' ) {
    // store indent in ASTExpr not in a literal
    currentIndent=ind.getText();
    text.setLength(loopStartIndex); // reset length to wack text
} else currentIndent=null;

NEWLINE
:(\n)? 'n' {newline(); currentIndent=null;}

ACTION
options {
    generateAmbigWarnings=false; // $EXPR$ is ambig with $!..!$
}
{
    int startCol = getColumn();
}

LINE_BREAK {$setType(Token.SKIP);}

(\r)? '\n' {newline(); currentIndent=null;}

// Match escapes not in a string like <\n\u0005>
\$! (uc=ESC_CHAR {buf.append(uc); })+$! {$setText(buf.toString()); $setType(LITERAL);}

COMMENT {$setType(Token.SKIP);}
	(\n)? '\n' {newline();}

\$! '@'! (~('\\'|'('))+(\n)? '()!' {$setType(TemplateParser.REGION_REF);}

// match $@foo(){' \n
// match $@foo${'end$ => foo:={
\$! '\n'|\$!\n
("\n")! '\n'! {$setType(TemplateParser.REGION_REF);}

// Open Source Used In OnPrem2.1 2.2 9105
null
COMMENT
{
    int startCol = getColumn();
}
: "$!
(options {greedy=false;}
   :("\r")? 'n' {newline();}
   |)
)*
"!$" ( {startCol==1}? ('\r')? 'n' {newline();} )?
;

protected
 LINE_BREAK
 : "$\\$" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?
;

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/template.g
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  jar/org/antlr/stringtemplate/language/action.g
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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/StringTemplateToken.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/Expr.java
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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplate.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/ChunkToken.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplateGroup.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplateWriter.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/StringRef.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/StringTemplateAST.java
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    */

    package org.antlr.stringtemplate.language;
    import org.antlr.stringtemplate.*;
    import java.util.*;
}

    /** Match an ST group interface. Just a list of template names with args.
        * Here is a sample interface file:
        *
        *interface nfa;
        *nfa(states,edges);
        *optional state(name);
        */
class InterfaceParser extends Parser;

options {
    k=3;
}

protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
    if ( groupI!=null ) {
        groupI.error("template group interface parse error", e);
    }
    else {
        System.err.println("template group interface parse error: "+e);
        e.printStackTrace(System.err);
    }
}

groupInterface[StringTemplateGroupInterface groupI]
{this.groupI = groupI;}
:"interface" name:ID {groupI.setName(name.getText());} SEMI
    ( template[groupI] )+
;

template[StringTemplateGroupInterface groupI]
{
    LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
    String templateName=null;
}
:(opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
    {
        templateName = name.getText();
        groupI.defineTemplate(templateName, formalArgs, opt!=null);
    }
;

args returns [LinkedHashMap args=new LinkedHashMap()]
:a:ID {args.put(a.getText(), new FormalArgument(a.getText()));}
    ( COMMA b:ID {args.put(b.getText(), new FormalArgument(b.getText()));} )*  
;

class InterfaceLexer extends Lexer;

options {
    k=2;
}
charVocabulary = \u0000..\uFFFE;
}

ID: ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*
;

LPAREN: '(';
RPAREN: ')';
COMMA: ',';
SEMI: ';';
COLON: ':';

// Single-line comments
SL_COMMENT  :
    /[/*
        (~('
'|''))* ((\r)? '\n')?
    {$setType(Token.SKIP); newline();}
;

// multiple-line comments
ML_COMMENT  :
    /*
        (options {
            greedy=false;
        }
        : ('\r')? '\n'  {newline();}
        | -
        | *"*/
    {$setType(Token.SKIP);}
;

// Whitespace -- ignored
WS  :
    ( ' ' |
        \t |
        '\f'
    | ('\r')? '\n'  {newline(); }
    )+
    { $setType(Token.SKIP); }
;

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/interface.g
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** Break up an input text stream into chunks of either plain text
 *  or template actions in "<...>". Treat IF and ENDIF tokens
 *  specially.
 */
class AngleBracketTemplateLexer extends Lexer;

options {
    importVocab=TemplateParser;
    k=7; // see "<endif>
    charVocabulary = "\u0001".."\uFFE";
}

protected String currentIndent = null;
protected StringTemplate self;
public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
            LA(i+5)=='>';  
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
            LA(i+5)=='f'&&LA(i+6)=='>'; 
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='>';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)=='\r'&&LA(i+1)=='\n')||LA(i)=='\n';
}

LITERAL
    : {LA(1)!='\r'&&LA(1)!='\n'}?  
        ( options { generateAmbigWarnings=false; }  
            {int loopStartIndex=text.length();
            int col=getColumn();
            }
            : '\!' '\r' // allow escaped delimiter  
               | '\!' '\0' // always replace \ with \
               | '\!' '\n' // otherwise ignore escape char
               | ind:INDENT 
            {  
                if ( col==1 && LA(1)=='<') {  
                    // store indent in ASTExpr not in a literal  
                    currentIndent=ind.getText();
                    text.setLength(loopStartIndex); // reset length to wack text  
                }  
                else currentIndent=null;  
            }
        )
protected
INDENT
: ( options {greedy=true;}: ' ' | '	')+
;

NEWLINE
: (\'v\')? \'n\' {newline(); currentIndent=null;}
;

ACTION
options {
    generateAmbigWarnings=false; // <EXPR> is ambig with <!..!>
}
{
    int startCol = getColumn();

    : LINE_BREAK {$setType(Token.SKIP);}
    | // Match escapes not in a string like <\u\ufe5>
        StringBuffer buf = new StringBuffer(); char uc = '\u0000';
        '\! (uc=ESC_CHAR {buf.append(uc); })+' '>'!
        {$setText(buf.toString()); $setType(LITERAL);}
    | COMMENT    {$setType(Token.SKIP);}
    | ( options {generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
                    }
            : '<'! 'if' (' !)* '(' IF_EXPR ')' '>'! {$setType(TemplateParser.IF);}
                ( (\'v\')? \'n\'! {newline();})? // ignore any newline right after an IF
            | '<'! "elseif" (' !)* '(' IF_EXPR ')' '>'! {$setType(TemplateParser.ELSEIF);}
                ( (\'v\')? \'n\'! {newline();})? // ignore any newline right after an IF
            | '<'! "else" '>'! {$setType(TemplateParser.ELSE);}
                ( (\'v\')? \'n\'! {newline();})? // ignore any newline right after an ELSE
            | '<'! "endif" '>'! {$setType(TemplateParser.ENDIF);}
                ( {startCol==1}? (\'v\')? \'n\'! {newline();})? // ignore after ENDIF if on line by itself
    | // match <@foo()> => foo
        // match <@foo>...<@end> => foo::<...'
        '"! '@'! ("">'! {TemplateParser.REGION_REF;}
    | '>'!
        {$setType(TemplateParser.REGION_DEF); String t=$getText;

$setText(t+"::=");

    ( options {greedy=true;} : (\r')? \n' \n' {newline();})?
    [boolean atLeft = false;]

    ( options {greedy=true;} // handle greedy=false with predicate
        : !(upcomingAtEND(1)[(upcomingNewline(1)&&upcomingAtEND(2))])?
        ( (\r')? \n' \n' {newline(); atLeft = true;}
         | {atLeft = false;})
    )+

    ( (\r')? \n' \n' {newline(); atLeft = true;})?

    ("<@end>"!
    | {self.error("missing region "+t+" <@end> tag");}
    )

    ( [atLeft]? (\r')? \n' \n' {newline();})?

| '!' EXPR '!'|

| ChunkToken t = new ChunkToken(_ttype, $getText, currentIndent);
  $setToken(t);
| ;

protected
EXPR: ( ESC
    | (\r')? \n' \n' {newline();}
    | SUBTEMPLATE
    | ('='|'+') TEMPLATE
    | ('='|'+') SUBTEMPLATE
    | ('='|'+') ~('"'|'<'|'{')
    | '\>'
    )+

;

protected
TEMPLATE
:"" ( ESC | ":" )* ""
|"<"<
    (options {greedy=true;} :(\r')? \n' \n' {newline();})? // consume 1st \n
    (options {greedy=false;} // stop when you see the >>
        : [LA(3)==>'&L&LA(4)==>'']? \r' \n' \n' {newline();} // kill last \n
        [LA(2)==>'&L&LA(3)==>'']? \n' \n' {newline();} // kill last \n
    | \n')*
protected

IF_EXPR:( ESC
  | '\n'? '\n' {newline();}
  | SUBTEMPLATE
  | NESTED_PARENS
  | '\~')
)+

protected

ESC_CHAR returns [char uc='\u0000']
: "\n"! {uc = '\n';}
["\r"! {uc = '\r';}]
["\t"! {uc = '\t';}]
["\""! {uc = '\';}]
["\u"! a:HEX! b:HEX! c:HEX! d:HEX! {uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}]

// just used to skip stuff (not part of unicode escape stuff)
protected

ESC :   '\' . // ('<'|'>'|'n'|'t'|'"'|'\'|':'|'{'|'}'|'\')

protected

HEX: '0'..'9'|'A'..'F'|'a'..'f'

protected

SUBTEMPLATE
  :   '{' (SUBTEMPLATE|ESC|~'}')* '}'

protected

NESTED_PARENS
  :   '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')'

protected

COMMENT
  { int startCol = getColumn();
  } : ""{" ! (options { greedy=false; } : COMMENT) + '}'


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/** Match a group of template definitions beginning
 * with a group name declaration. Templates are enclosed
 * in double-quotes or <<...>> quotes for multi-line templates.
 * Template names have arg lists that indicate the cardinality
 * of the attribute: present, optional, zero-or-more, one-or-more.
 * Here is a sample group file:

  group nfa;

  // an NFA has edges and states
  nfa(states,edges) ::= <<
     digraph NFA {
       rankdir=LR;
       <states; separator="\n"> 
       <edges; separator="\n">
     }
   >>

  state(name) ::= "node [shape = circle]; <name>;"

  */
  class GroupParser extends Parser;

  options {
    k=3;
  }

  protected StringTemplateGroup group;

  public void reportError(RecognitionException e) {
    if ( group!=null ) {
      group.error("template group parse error", e);
    }
    else {
      System.err.println("template group parse error: "+e);
      e.printStackTrace(System.err);
    }
  }

  group[ StringTemplateGroup g ]
  {
    this.group = g;
  }
  :	"group" name:ID {g.setName(name.getText());}
  ( COLON s:ID {g.setSuperGroup(s.getText());} )?
template[StringTemplateGroup g]
{
    Map formalArgs = null;
    StringTemplate st = null;
    boolean ignore = false;
    String templateName=null;
    int line = LT(1).getLine();
}
(AT scope:ID DOT region:ID
{
    templateName=g.getMangledRegionName(scope.getText(),region.getText());
    if ( g.isDefinedInThisGroup(templateName) ) {
        g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+
                scope.getText()+"."+region.getText());
        st = new StringTemplate(); // create bogus template to fill in
    } else {
        boolean err = false;
        // @template.region() ::= "...
        StringTemplate scopeST = g.lookupTemplate(scope.getText());
        if ( scopeST==null ) {
            g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+
                scope.getText());
            err=true;
        }
        if ( !scopeST.containsRegionName(region.getText()) ) {
            g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+
                region.getText());
            err=true;
        } else {
            st = new StringTemplate();
        }
    }
    st = g.defineRegionTemplate(scope.getText(),
                                region.getText(),
                                null,
                                StringTemplate.REGION_EXPLICIT);
}
|name:ID {templateName = name.getText();} |
{| if ( g.isDefinedInThisGroup(templateName) ) { g.error("redefinition of template: "+templateName); st = new StringTemplate(); // create bogus template to fill in } else { st = g.defineTemplate(templateName, null); } |
{| if ( st!=null ) {st.setGroupFileLine(line);}} |
{| LPAREN (args[st]|{st.defineEmptyFormalArgumentList();}) |
{| RPAREN DEFINED_TO_BE |
{| t:STRING {st.setTemplate(t.getText());} |
{| bt:BIGSTRING {st.setTemplate(bt.getText());} |
{|}) |
{| alias:ID DEFINED_TO_BE target:ID |
{| g.defineTemplateAlias(alias.getText(), target.getText());} |
{| ; |
{| args[StringTemplate st] |
{| :arg[st] ( COMMA arg[st] )* |
{| ; |
{| arg[StringTemplate st] |
{| StringTemplate defaultValue = null; } |
{| :name:ID (ASSIGN s:STRING |
{| defaultValue=new StringTemplate("$_val_$_"); defaultValue.setAttribute("_val_", s.getText()); defaultValue.defineFormalArgument("_val_"); defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>"); } |
{| ]ASSIGN bs::ANONYMOUS_TEMPLATE |
{| defaultValue=new StringTemplate(st.getGroup(), bs.getText()); defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>"); } |
{| )? {st.defineFormalArgument(name.getText(), defaultValue);} |
{| ; |
suffix returns [int cardinality=FormalArgument.REQUIRED]
  :  OPTIONAL {cardinality=FormalArgument.OPTIONAL;}
  |  STAR     {cardinality=FormalArgument.ZERO_OR_MORE;}
  |  PLUS     {cardinality=FormalArgument.ONE_OR_MORE;}
  |
  ;
  */

mapdef[StringTemplateGroup g]
{
  Map m=null;
}
:name:ID
  DEFINED_TO_BE m=map
  {
    if ( g.getMap(name.getText())!=null ) {
      g.error("redefinition of map: "+name.getText());
    }
    else if ( g.isDefinedInThisGroup(name.getText()) ) {
      g.error("redefinition of template as map: "+name.getText());
    }
    else {
      g.defineMap(name.getText(), m);
    }
  }

map returns [Map mapping=new HashMap()]
  :  LBRACK mapPairs[mapping] RBRACK
;

mapPairs [Map mapping]
  :  keyValuePair[mapping] (COMMA keyValuePair[mapping])* 
    (COMMA defaultValuePair[mapping])? 
    |  defaultValuePair[mapping]
    ;

defaultValuePair[Map mapping]
{
  StringTemplate v = null;
}
:"default" COLON v=keyValue 
  {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);}
;

keyValuePair[Map mapping]
null;

:key:STRING COLON v=keyValue {mapping.put(key.getText(), v);}

keyValue returns [StringTemplate value=null]
:s1:BIGSTRING {value = new StringTemplate(group,s1.getText());}
:s2:STRING {value = new StringTemplate(group,s2.getText());}
:k:ID{k.getText().equals("key")}?
{value = ASTExpr.MAP_KEY_VALUE;}
[[value = null;]n

class GroupLexer extends Lexer;

options {
  k=2;
  charVocabulary = \u0000..\uFFFE;
  testLiterals=false;
}

ID
options {
  testLiterals=true;
}
:(a..z|A..Z|_) (a..z|A..Z|0..9|._)*

STRING
:""! ( \"! " | \"~ " | ~\" )* ""!

BIGSTRING
:"<"!
( options {greedy=true;}):(\r)?\n! [newline();] // consume 1st \n( options {greedy=false;} // stop when you see the >>
:[LA(3)="">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">}> \n[[LA(2)="">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">">}> \n[\r]? \n! {newline();} // kill last \n[\r]? \n! {newline();} // else keep
[\r] ! > // \> escape
].
)*
  ">>"!

;
List args=null;
StringTemplateToken t = null;
}
:'['
(options {greedy=false;} // stop when you see the >>
:'{'}? 'u' {newline();}   // else keep
['\n']? // \ escape
|.
)*
')'!
;

AT: '@' ;
LPAREN: '(' ;
RPAREN: ')' ;
LBRACK: '[' ;
RBRACK: ']' ;
COMMA: ',' ;
DOT: '.' ;
DEFINED_TO_BE: '::=' ;
SEMI: ';' ;
COLON: ':' ;
STAR: '*' ;
PLUS: '+' ;
ASSIGN: '=' ;
OPTIONAL : '?' ;

// Single-line comments
SL_COMMENT
: "//" 
   (~("u[\']")* (("u'"? "u")?
   {setType(Token.SKIP); newline();})
   ;

// multiple-line comments
ML_COMMENT
: "/*" 
   (options {
      greedy=false;
   }
   : ('\r')? 'u' {newline();} 
   | .
   )* 
   "*/" 
   {setType(Token.SKIP);}
   ;
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Mesa 3-D graphics library
Version: 7.0

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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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1.922 joda-time 2.3

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/* Copyright 2004 The Apache Software Foundation */
package zipcompare;

import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;

public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }

        ZipFile file1;
        try { file1 = new ZipFile(args[0]); } catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1); return; }

        ZipFile file2;
        try { file2 = new ZipFile(args[1]); } catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1); return; }

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set set1 = new LinkedHashSet();
        for (Enumeration e = file1.entries(); e.hasMoreElements(); ) set1.add(((ZipEntry)e.nextElement()).getName());

        Set set2 = new LinkedHashSet();
for (Enumeration e = file2.entries(); e.hasMoreElements(); )
    set2.add(((ZipEntry)e.nextElement()).getName());

int errcount = 0;
int filecount = 0;
for (Iterator i = set1.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }
    try
    {
        set2.remove(name);
        if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error " + e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
    filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException {
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

    try {
        while (!done1)
        {
            int off1 = 0;
            int off2 = 0;

            while (off1 < buf1.length)
            {
                int count = stream1.read(buf1, off1, buf1.length - off1);
                if (count < 0)
                {
                    done1 = true;
                    break;
                }
                off1 += count;
            }

            while (off2 < buf2.length)
            {
                int count = stream2.read(buf2, off2, buf2.length - off2);
                if (count < 0)
                {
                    done2 = true;
                    break;
                }
                off2 += count;
            }

            if (off1 != off2 || done1 != done2)
                return false;

            for (int i = 0; i < off1; i++)
            {
                if (buf1[i] != buf2[i])
                    return false;
            }
        }
        return true;
    }
    finally { stream1.close(); stream2.close(); }
}

1.924 jersey-server 2.26

1.925 groovy-datetime 3.0.7
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1.929 perl-getopt-long 2.40-3.el7

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1.931 terracotta-toolkit-1.6-api 5.10.0

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Implementation-Version: 4.1.0.Final
Specification-Title: Bean Validation
Tool: Bnd-0.0.357
Bundle-Name: Hibernate Validator
Bundle-Version: 4.1.0.Final
Bnd-LastModified: 1277730439454
Bundle-ManifestVersion: 2
Bundle-Description: Hibernate's Bean Validation (JSR-303) reference implementation.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Import-Package: javax.persistence;resolution:=optional;version="[2.0.0,3.0.0)",javax.validation;version="[1.0.0,2.0.0)",javax.validation.constraints;version="[1.0.0,2.0.0)",javax.validation.groups;version="[1.0.0,2.0.0)",javax.validation.metadata;version="[1.0.0,2.0.0)",javax.validation.spi;version="[1.0.0,2.0.0)",javax.xml.bind;version=0,javax.xml.bind.annotation;version=0,javax.xml.bind.annotation.adapters;version=0,javax.xml.namespace;version=0,javax.xml.transform;version=0,ja
vax.xml.transform.stream;version=0,javax.xml.validation;version=0,org.slf4j;version="[1.5.6,2.0.0)" ,org.xml.sax;version=0
Bundle-SymbolicName: org.hibernate.validator
Originally-Created-By: Apache Maven

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* /opt/cola/permits/1143552238_1615694658.12/0/spring-beans-3-2-8-release-sources-2-jar/org/springframework/beans/PropertyValues.java
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1.944 python-chardet 2.2.1-3.el7

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }
if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compile" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright \d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}
1.946 tomcat-servlet-api 8.0.53

1.946.1 Available under license:

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The original XML Schemas for Java EE Deployment Descriptors:
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- javaee_web_services_client_1_2.xsd
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- 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
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1.948 ehcache 2.6.11

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  jar/org/jolokia/handler/list/AttributeDataUpdater.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia-core-1-3-1-sources-1-
  jar/org/jolokia/converter/object/OpenTypeConverter.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia-core-1-3-1-sources-1-
  jar/org/jolokia/restrictor/policy/MBeanPolicyConfig.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia-core-1-3-1-sources-1-
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* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/history/HistoryStore.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/detector/JBossDetector.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/backends/LocalRequestDispatcher.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/converter/json/Extractor.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/converter/json/TabularDataExtractor.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/Version.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/util/DateTimeUtil.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/history/HistoryStore.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/detector/JBossDetector.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/backends/LocalRequestDispatcher.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia/core/converter/json/Extractor.java
* /opt/cola/permits/1152477210_1618244773.01/0/jolokia-core-1-3-1-sources-1-jar/org/jolokia/core/util/HttpMethod.java
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* /opt/cola/permits/1152477210_1618244773.01/0/jolokia-core-1-3-1-sources-1-
  jar/org/jolokia/discovery/MulticastSocketListenerThread.java
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  jar/org/jolokia/converter/object/StringToOpenTypeConverter.java

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1.2 2002/06/06 22:49:36 bayard Exp $
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 * $Id: Option.java,v 1.6 2002/06/06 22:50:14 bayard Exp $
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Found in path(s):
* /opt/cola/permits/1136279811_1613727097.48/0/commons-cli-1-0-sources-1-
  jar/org/apache/commons/cli/Option.java
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/*
 * $Header: /home/cvs/jakarta-commons-
  sandbox/cli/src/java/org/apache/commons/cli/UnrecognizedOptionException.java,v 1.2 2002/06/06 09:37:26
  jstrachan Exp $
 * $Revision: 1.2 $
 * $Date: 2002/06/06 09:37:26 $
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/*
 * $Revision: 1.3 $
 * $Date: 2002/09/19 22:59:43 $
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  jar/org/apache/commons/cli/BasicParser.java

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/*
 * $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/OptionGroup.java,v 1.2
 2002/06/06 09:37:26 jstrachan Exp $
 * $Revision: 1.2 $
 * $Date: 2002/06/06 09:37:26 $
 *
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  jar/org/apache/commons/cli/OptionGroup.java
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/*
 * $Header: /home/cvs/jakarta-commons-
 * sandbox/cli/src/java/org/apache/commons/cli/MissingOptionException.java,v 1.2 2002/06/06 09:37:26 jstrachan
 * Exp $
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1.962 commons-codec 1.2

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/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
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 * @return true if the permission is granted, false otherwise
 */

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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/core/token/DefaultToken.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/core/authority/GrantedAuthoritiesContainer.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/access/method/P.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/provisioning/MutableUserDetails.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/crypto/password/AbstractPasswordEncoder.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/access/annotation/Jsr250SecurityConfig.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/access/prepost/PostInvocationAuthorizationAdvice.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/core/session/SessionDestroyedEvent.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
jar/org/springframework/security/provisioning/MutableUser.java

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* /
/**
* A token issued by {@link TokenService}.
* *
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
* *
* @author Ben Alex
* @since 2.0.1
*/

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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/jackson2/UnmodifiableListMixin.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/access/expression/method/DefaultMethodSecurityExpressionHandler.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/crypto/keygen/Base64StringKeyGenerator.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/scheduling/DelegatingSecurityContextTaskScheduler.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/authentication/CachingUserDetailsService.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/access/ProviderManager.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java
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jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java
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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java

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/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
 * modify the <code>Object</code> or throw an [@link AccessDeniedException].
 * 
 * Typically used to ensure the principal is permitted to access the domain object
 * instance returned by a service layer bean. Can also be used to mutate the domain object
 * instance so the principal is only able to access authorised bean properties or
 * <code>Collection</code> elements.
 * 
 * Special consideration should be given to using an <code>AfterInvocationManager</code>
 * on bean methods that modify a database. Typically an
 * <code>AfterInvocationManager</code> is used with read-only methods, such as
 * <code>public DomainObject getViewById(id)</code>. If used with methods that modify a
 * database, a transaction manager should be used to ensure any
 * <code>AccessDeniedException</code> will cause a rollback of the changes made by the
 * transaction.
 * 
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 */

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 */
/**
 * Determines if the { @link #getAuthentication() } has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the { @link #getAuthentication() }, else
 * false
 */

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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/core/annotation/AuthenticationPrincipal.java
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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/core/session/SessionInformation.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/core/AuthenticationException.java
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jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java
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jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java
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jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
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jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java
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jar/org/springframework/security/access/events/LoggerListener.java
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jar/org/springframework/security/core/session/SessionRegistry.java
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jar/org/springframework/security/authentication/rcp/RemoteAuthenticationException.java
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jar/org/springframework/security/access/events/LoggerListener.java
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jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java
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  jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-
  jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java

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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
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 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
 */

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* /opt/cola/permits/1175219275_1624300184.75/0/spring-security-core-5-2-10-release-sources-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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10th April 2012
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
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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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/* * Parts of this software have been adapted from the libpng package. * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package. * */
/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
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/* * This library's function is primarily to read and display MNG * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
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Licensee may purchase additional Support and Updates following the Initial Term at Digia's terms and conditions applicable at the time of renewal.

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Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.
"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the
Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

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13.3. Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

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Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

13.5. Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any
provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7. Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A “Force Majeure” event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8. Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

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FI-00380 Helsinki
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Fax: +358 10 313 3700

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lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of
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Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of
disclosure and the dissemination of disclosed Confidential Information by all legally available means.
The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

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9.4. Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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Agreement version 1.3.2

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3. Are derivative works allowed?
Yes!

4. Can I change or add to the font(s)?
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entire family, not just a single font, and that you'll have to keep 
both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add 
glyphs to the font, they must be stylistically in keeping with Vera's 
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Version 3, 29 June 2007

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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e) Verify that the user has already received a copy of these
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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS
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13.3 Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

13.4 Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5.1, 6, 7, 8(iv), 10, 12, 13.5, 13.6, 13.9, 13.10 and 13.11 of this Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6 Payment and Taxes
If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.
13.7 Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A “Force Majeure” event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8 Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

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   Valimotie 21
   FI-00380 Helsinki
   Finland
   Fax: +358 10 313 3700

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This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of the Central Chamber of Commerce of Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

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Agreement version 3.9.2

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Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
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"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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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Ty Coon, President of Vice

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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

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If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.
13.7 Force Majeure
Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A “Force Majeure” event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8 Notices
Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:
Digia USA, Inc
2350 Mission College Blvd.
Suite 1020
Santa Clara, CA 95054
U.S.A.
Fax: +1 408 433 9360

13.9 Export Control
Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10 Governing Law and Legal Venue
This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defence or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 13.10 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

13.11 No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software, as applicable, with any other software or hardware not delivered by Digia under this Agreement.

13.11 Government End Users
A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

Appendix I

1. Parts of the Licensed Software that are permitted for distribution ("Redistributables")
   - The Licensed Software's main and plug-in libraries in object code form
   - The Licensed Software's configuration tool ("qtconfig")
   - The Licensed Software's help tool in object code/executable form ("Qt Assistant")
   - The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
   - The Licensed Software's designer tool ("Qt Designer")
   - The Licensed Software's IDE tool ("Qt Creator")
   - The Licensed Software's QML ("Qt Quick") launcher tool in object code/executable form

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to
   - The Licensed Software's source code and header files
   - The Licensed Software's documentation
   - The Licensed Software's tool for writing makefiles ("qmake")
   - The Licensed Software's Meta Object Compiler ("moc")
   - The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")
   - The Licensed Software's Resource Compiler ("rcc")
   - The Licensed Software's generator (only in the case of Qt Jambi if applicable)
   - The Licensed Software's Qt SDK

QT COMMERCIAL ALL OPERATING SYSTEMS COMMERCIAL DEVELOPER LICENSE AGREEMENT

DIGIA USA INC. | SUITE 203 | 2880 ZANKER ROAD | SAN JOSE | CA 95134 | U.S.A. |
FAX +1 408 433 9360
This Evaluation License Agreement ("Agreement") is a legal agreement between Digia USA, Inc. ("Digia"), with its registered office at 32 W. Loockerman Street, Suite 201, City of Dover, County of Kent, Delaware 19904, U.S.A. and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

1. DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50%) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Term" shall mean the period of time thirty (30) days from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Digia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Digia to Licensee in conjunction with this Agreement.

"Nokia shall mean Digia Plc, a corporation incorporated under the laws of Finland, having its registered office at PO box 226, 00045 Nokia Group, Finland (visiting address Keilalahdentie 4, 02150 Espoo, Finland) and registered with the Finnish Trade Register under business ID 0112038-9 and acting on behalf of its respective Affiliates.

"Party or Parties" shall mean Licensee and/or Digia.

2. OWNERSHIP

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If Licensee provides any findings, proposals, suggestions or other feedback ("Feedback") to Digia regarding the Licensed Software, Digia shall own all right, title and interest including the intellectual property rights in and to such Feedback, excluding however any existing patent rights of Licensee. To the extent Licensee owns or controls any patents for such Feedback Licensee hereby grants to Digia and its Affiliates, a worldwide, perpetual, non-transferable, sublicensable, royalty-free license to (i) use, copy and modify Feedback and to create derivative works thereof, (ii) to make (and have made), use, import, sell, offer for sale, lease, dispose, offer for disposal or otherwise exploit any products or services of Digia containing Feedback, and (iii) sublicense all the foregoing rights to third party licensees and customers of Digia and/or its Affiliates.

3. VALIDITY OF THE AGREEMENT

By installing, copying, or otherwise using the Licensed Software, Licensee agrees to be bound by the terms of this Agreement. If Licensee does not agree to the terms of this Agreement, Licensee may not install, copy, or otherwise use the Licensed Software. Upon Licensee's acceptance of the terms and conditions of this Agreement, Digia grants Licensee the right to use the Licensed Software in the manner provided below.

4. LICENSES

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Licensee may not disclose, modify, sell, market, commercialise, distribute, loan, rent, lease, or license the Licensed Software or any copy of it or use the Licensed Software for any purpose that is not expressly granted in this Section 4. Licensee may not alter or remove any details of ownership, copyright, trademark or other property right connected with the Licensed Software. Licensee may not distribute any software statically or dynamically linked with the Licensed Software.

4.3 No Technical Support
Digia has no obligation to furnish Licensee with any technical support whatsoever. Any such support is subject to separate agreement between the Parties.

4.4 Further Requirements
It is expressly acknowledged and understood by Licensee, that Licensee is strictly prohibited from using Licensed Software for creation of mobile phones or tablet computers targeted for consumer end users. Notwithstanding anything contrary to this Agreement, it is expressly acknowledged and understood by Licensee, that Nokia shall hereby be named as a third party beneficiary under this Agreement with respect to this Section 4.4. Therefore, Nokia shall have the same rights as Digia under this Agreement with respect to this Section 4.4, and shall be entitled to exercise such rights independent from Digia.

5. THIRD PARTY SOFTWARE
The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included along with the Licensed Software delivery as a convenience for development and testing only. Such source code and libraries may be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software where the Third Party Software is used, as may be amended from time to time, do not comprise the Licensed Software. Licensee acknowledges (1) that some part of Third Party Software may require additional licensing of copyright and patents from the owners of such, and (2) that distribution of any of the Licensed Software referencing any portion of a Third Party Software may require appropriate licensing from such third parties.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Licensed Software is licensed to Licensee "as is". To the maximum extent permitted by applicable law, Digia on behalf of itself and its suppliers, disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability, fitness for a particular purpose, title and non-infringement with regard to the Licensed Software.

7. LIMITATION OF LIABILITY
If, Digia's warranty disclaimer notwithstanding, Digia is held liable to Licensee, whether in contract, tort or any other legal theory, based on the Licensed Software, Digia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Digia's option, either (A) return of the price Licensee paid for the Licensed Software, or (B) repair or replacement of the Licensed Software, provided Licensee returns to Digia all copies of the Licensed Software as originally delivered to Licensee. Digia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Digia under any circumstances be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Digia to Licensee shall not exceed the total amount Licensee has paid to Digia in connection with this Agreement.
8. CONFIDENTIALITY
Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

9. GENERAL PROVISIONS
9.1 No Assignment
Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. For the avoidance of doubt, Digia's right to assign or transfer the Agreement, in whole or in part, shall be unrestricted.

9.2 Termination
Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

9.3 Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

9.4 Entire Agreement
This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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Notices to Digia shall be given to:
Digia USA, Inc
2350 Mission College Blvd.
Suite 1020
Santa Clara, CA 95054
U.S.A.
Fax: + 1 408 433 9360

9.6 Export Control
Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software.

9.7 Governing Law and Legal Venue
This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defence or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 9.6 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

9.8 No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by Digia under this Agreement.

9.9 Government End Users
A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

EVALUATION LICENSE AGREEMENT

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FAX +1 408 433 9360
PLACE OF REGISTERED OFFICE: DELAWARE | WWW.DIGIA.COM
Digia Qt LGPL Exception version 1.1

As an additional permission to the GNU Lesser General Public License version 2.1, the object code form of a "work that uses the Library" may incorporate material from a header file that is part of the Library. You may distribute such object code under terms of your choice, provided that:

(i) the header files of the Library have not been modified; and
(ii) the incorporated material is limited to numerical parameters, data structure layouts, accessors, macros, inline functions and templates; and
(iii) you comply with the terms of Section 6 of the GNU Lesser General Public License version 2.1.

Moreover, you may apply this exception to a modified version of the Library, provided that such modification does not involve copying material from the Library into the modified Library's header files unless such material is limited to (i) numerical parameters; (ii) data structure layouts; (iii) accessors; and (iv) small macros, templates and inline functions of five lines or less in length.

Furthermore, you are not required to apply this additional permission to a modified version of the Library.
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

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

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

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

=== begin of license ===

VIM LICENSE

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

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

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

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

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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

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

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.
III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

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

=== end of license ===

Note:

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

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

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

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

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

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

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

Kibaale Children's Centre*KCC* *Kibaale* *charity*

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

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

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

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

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

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

*donate*

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
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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
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Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
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IBAN: NL95 INGB 0004 5487 74

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Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

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8134 Adliswil
This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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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/*
---------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

------------------------------------------------------------------------
SKIP
=pod
=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help       show short help

--version    show version

--patch=file  write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version    provide compatibility with Perl version
--cplusplus                 accept C++ comments
--quiet                    don't output anything except fatal errors
--nodiag                   don't show diagnostics
--nohints                  don't show hints
--nochanges                don't suggest changes
--nofilter                 don't filter input files

--strip        strip all script and doc functionality from
                ppport.h

--list-provided  list provided API
--list-unsupported list unsupported API
--api-info=name   show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.
OPTIONS

--help
Display a brief usage summary.

--version
Display the version of F<ppport.h>.

--patch=I<file>
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

--copy=I<suffix>
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither --patch or --copy are given, the default is to simply print the diffs for each file. This requires either Text::Diff or a diff program to be installed.

--diff=I<program>
Manually set the diff program and options to use. The default is to use Text::Diff, when installed, and output unified context diffs.

--compat-version=I<version>
Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

--cplusplus
Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons.
Using this option instructs `<ppport.h>` to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don’t print anything except fatal errors.

=head2 --nodiag

Don’t output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don’t output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don’t suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don’t filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from `<ppport.h>`. This reduces the size of `<ppport.h>` dramatically and may be useful if you want to include `<ppport.h>` in smaller modules without increasing their distribution size too much.

The stripped `<ppport.h>` will have a C`<--unstrip>` option that allows you to undo the stripping, but only if an appropriate C`<Devel::PPPort>` module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by `<ppport.h>`. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by `<ppport.h>` and below which version of Perl they probably
In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `PL_` prefix is deprecated. Also, some API functions used to have a `perl_` prefix. Using this form is also deprecated. You can safely use the supported API, as `ppport.h` will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `#define`'s in your source code before the inclusion of `ppport.h`.

These functions or variables will be marked `explicit` in the list shown by `--list-provided`.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either `static` or global variants.

For a `static` function or variable (used only in a single source...
#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf()</td>
<td>NEED_sv_catpvf</td>
<td>NEED_sv_catpvf_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_nocontext()</td>
<td>NEED_sv_catpvf_nocontext</td>
<td>NEED_sv_catpvf_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_vpn_force_flags()</td>
<td>NEED_sv_vpn_force_flags</td>
<td>NEED_sv_vpn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf()</td>
<td>NEED_sv_setpvf</td>
<td>NEED_sv_setpvf_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_nocontext()</td>
<td>NEED_sv_setpvf_nocontext</td>
<td>NEED_sv_setpvf_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvn()</td>
<td>NEED_vnewSVpvn</td>
<td>NEED_vnewSVpvn_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

=back

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:
perl ppport.h --copy=new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '$_{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /$\+\w.+/;          # C<Devel::PPPort>

my $LF = '(?:\r\n|\[\r\n\])';   # line feed

my($ppport) = $0 =~ /$\+\w.+/;          # C<Devel::PPPort>

my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t]";  # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\w*';
my $cce = '\w*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
  my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
  if ($@) {
    die "Invalid version number format: $opt{compat-version}.\n";
  } else {
    $opt{compat-version} = 5;
  }
}

my %API = map { /^\w+((\[^\^]\^\w+(\[^\^]*)\[^\^]*)\[^\^]*)\[^\^]*)\[^\^]*\[^\^]*)\[^\^]*\[^\^]*\[^\^]*)$/
  ? ($1 => 
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()).

Open Source Used In OnPrem2.1 2.2 10043
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()
)
: die "invalid spec: $_") qw(
AvFILL|p5.004050|p
AvFILL|n
CLASS|n
CPERLscope|p5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|p5.006000|p
CopFILEGV_set|p5.006000|p
CopFILEGV|p5.006000|p
CopFILESV|p5.006000|p
CopFILE_set|p5.006000|p
CopFILE|p5.006000|p
CopSTASHPV_set|p5.006000|p
CopSTASHPV|p5.006000|p
CopSTASH_eq|p5.006000|p
CopSTASH_set|p5.006000|p
CopSTASH|p5.006000|p
CopyD|p5.009002|p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|p5.011000|p
DEFSV|p5.004050|p
END_EXTERN_C|p5.005000|p
ENTER||
ERRSV|p5.004050|p
EXTEND||
EXTERN_C|p5.005000|p
F0convert||n
FREETMPS||
GIMME_V|n5.004000|n
GIMME||n
GROK_NUMERIC_RADIX|p5.007002|p
G_ARRAY||
G_DISCARD||
G_EVAL||
G_METHOD|p5.006001|p
G_NOARGS||
G_SCALAR||
G_VOID|p5.004000|
GetVars||
GvSVn|p5.009003|p
GvSV||
Gv_AMupdate
HEf_SVKEY
HeHASH
HeKEY
HeKLEN
HePV
HeSVKEY
HeSVKEY_force
HeSVKEY_set
HeUTF8
HeVAL
HvNAMELEN_get
HvNAME_get
HvNAME
INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
IVSIZE
IVTYPE
IVdf
LEAVE
LVRET
MARK
MULTICALL
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MoveD
Move
NOOP
NUM2PTR
NVTYPE
NVef
NVff
NVgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv|||  
Nullhv|||  
Nullsv|||  
ORIGMARK|||  
PAD_BASE_SV|||  
PAD_CLONE_VARS|||  
PAD_COMPNAME_FLAGS|||  
PAD_COMPNAME_GEN_set|||  
PAD_COMPNAME_GEN|||  
PAD_COMPNAME_OURSTASH|||  
PAD_COMPNAME_PV|||  
PAD_COMPNAME_TYPE|||  
PAD_DUP|||  
PAD_RESTORE_LOCAL|||  
PAD_SAVE_LOCAL|||  
PAD_SAVE_SETNULLPAD|||  
PAD_SETSV|||  
PAD_SET_CUR_NOSAVE|||  
PAD_SET_CUR|||  
PAD_SV|||  
PAD_SV|||  
PERLIO_FUNCS_CAST|5.009003||p  
PERLIO_FUNCS_DECL|5.009003||p  
PERL_ABS|5.008001||p  
PERL_BCDVERSION|5.011000||p  
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p  
PERL_HASH|5.004000||p  
PERL_INT_MAX|5.004000||p  
PERL_INT_MIN|5.004000||p  
PERL_LONG_MAX|5.004000||p  
PERL_LONG_MIN|5.004000||p  
PERL_MAGIC_arylen|5.007002||p  
PERL_MAGIC_backref|5.007002||p  
PERL_MAGIC_bm|5.007002||p  
PERL_MAGIC_collxfrm|5.007002||p  
PERL_MAGIC_dbfile|5.007002||p  
PERL_MAGIC_dbline|5.007002||p  
PERL_MAGIC_defelem|5.007002||p  
PERL_MAGIC_envelem|5.007002||p  
PERL_MAGIC_env|5.007002||p  
PERL_MAGIC_ext|5.007002||p  
PERL_MAGIC_fm|5.007002||p  
PERL_MAGIC_glob|5.011000||p  
PERL_MAGIC_isaelem|5.007002||p  
PERL_MAGIC_isa|5.007002||p  
PERL_MAGIC_mutex|5.011000||p  
PERL_MAGIC_nkeys|5.007002||p  
PERL_MAGIC_nkeystmap|5.007002||p  
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table[5.007002]
PERL_MAGIC_overload[5.007002]
PERL_MAGIC_pos[5.007002]
PERL_MAGIC_qr[5.007002]
PERL_MAGIC_regdata[5.007002]
PERL_MAGIC_regex_global[5.007002]
PERL_MAGIC_shared_scalar[5.007003]
PERL_MAGIC_shared[5.007003]
PERL_MAGIC_sigelem[5.007002]
PERL_MAGIC_sig[5.007002]
PERL_MAGIC_substr[5.007002]
PERL_MAGIC_sv[5.007002]
PERL_MAGIC_taint[5.007002]
PERL_MAGIC_tiedelem[5.007002]
PERL_MAGIC_tiedscalar[5.007002]
PERL_MAGIC_tied[5.007002]
PERL_MAGIC_utf8[5.008001]
PERL_MAGIC_uvar_elem[5.007003]
PERL_MAGIC_uvar[5.007002]
PERL_MAGIC_vec[5.007002]
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PERL_PV_ESCAPE_ALL[5.009004]
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PERL_PV_ESCAPE_NOCLEAR[5.009004]
PERL_PV_ESCAPE_QUOTE[5.009004]
PERL_PV_ESCAPE_RE[5.009005]
PERL_PV_ESCAPE_UNI_DETECT[5.009004]
PERL_PV_ESCAPE_UNI[5.009004]
PERL_PV_PRETTY_DUMP[5.009004]
PERL_PV_PRETTY_ELLIPSES[5.010000]
PERL_PV_PRETTY_LTGT[5.009004]
PERL_PV_PRETTY_NOCLEAR[5.010000]
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PERL_PV_PRETTY_REGPROP[5.009004]
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PERL_SHORT_MAX[5.004000]
PERL_SHORT_MIN[5.004000]
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PERL_SYS_INIT
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PERL_UCHAR_MAX
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PERL_UINT_MAX
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PERL ULONG_MIN
PERLUNUSED_ARG
PERLUNUSED_CONTEXT
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PERLUQUAD_MAX
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PERL_USE_GCC_BRACE_GROUPS
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PERL_VERSION
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PL_Sv
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PL_compiling
PL_copline
PL_curcop
PL_curstash
PL_defgv
PL_dirty
PL_dowarn
PL_erro
PL_error_count
PL_expect
PL_hexdigit
PL_hints
PL_in_my_stash
PL_in_my
PL_last_in_gv
PL_laststatval
PL_lex_state
PL_lex_stuff
PL_linestr
PL_modglobal
PL_na
PL_no_modify[5.006000]|p
PL_ofsgr||n
PL_parser[5.009005]|p
PL_perl_destruct_level[5.004050]|p
PL_perldb[5.004050]|p
PL_ppadd[5.006000]|p
PL_rsfp_filters[5.004050]|p
PL_rsfp[5.004050]|p
PL_rs||n
PL_signals[5.008001]|p
PL_stack_base[5.004050]|p
PL_stack_sp[5.004050]|p
PL_statcache[5.005000]|p
PL_stdingv[5.004050]|p
PL_sv_arenaroot[5.004050]|p
PL_sv_no[5.004050]|pn
PL_sv_undef[5.004050]|pn
PL_sv_yes[5.004050]|pn
PL_tainted[5.004050]|p
PL_tainting[5.004050]|p
PL_tokenbuf[5.011000]|p
POP_MULTICALL||5.011000|
POPi||n
POPi||n
POPi||n
POPpbytex[5.007001]|n
POPPpx[5.005030]|n
POPPp||n
POPp||n
PTR2IV[5.006000]|p
PTR2NV[5.006000]|p
PTR2UV[5.006000]|p
PTR2nat[5.009003]|p
PTR2ul[5.007001]|p
PTRV[5.006000]|p
PUSHMARK||
PUSH_MULTICALL||5.011000|
PUSHi||
PUSHmortal[5.009002]|p
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PUSHs||
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WARN\_ASSERTIONS[5.011000]\|p
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WARN\_CLOSURE[5.006000]\|p
WARN\_DEBUGGING[5.006000]\|p
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hv_iterval[]
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init_i18n14n
init_ids
init_interpl
init_main_stash
init_perlib
init_postdump_symbols
init_predump_symbols
init_stacks
init_tm
instr
intro_my
intuit_method
intuit_more
invert
io_close
isALNUMC
isALNUM
isALPHA
isASCII
isBLANK
isCNTRL
isDIGIT
isGRAPH
isGV_with_GP
isLOWER
isPRINT
isPSXSPC
isPUNCT
isSPACE
isUPPER
isXDIGIT
is_an_int
is_gv_magical_sv
is_handle_constructor
is_list_assignment
is_lvalue_sub
is_uni_alnumlc
is_uni_alnumc
magic_getuvar
| magic_getvec
| magic_get
| magic_killbackrefs
| magic_len
| magic_methcall
| magic_methpack
| magic_nextpack
| magic_regdata_cnt
| magic_regdatum_get
| magic_regdatum_set
| magic_scalarpack
| magic_set_all_env
| magic_setamagic
| magic_setarylen
| magic_setcollxfrm
| magic_setdbline
| magic_setdefelem
| magic_setenv
| magic_sethint
| magic_setisa
| magic_setmglob
| magic_setnkeys
| magic_setpack
| magic_setpos
| magic_setregexp
| magic_setsig
| magic_setsubstr
| magic_settaint
| magic_setutf8
| magic_setvar
| magic_setvec
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| make_matcher
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| measure_struct
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| mem_collxfrm
| mem_log_common
my_chsize
my_clearenv
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my_cxt_init
my_dirfd
my_exit_jump
my_exit
my_failure_exit
my fflush_all
my_fork
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my_htobe32
my_htobe64
my_htobi16
my_htobi32
my_htobi64
my_htole16
my_htole32
my_htole64
my_htonl
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my_letohi
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my_memcmp
my_memset
my_ntohl
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my_popen_list
my_popen
my_setenv
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my_stat
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my_strlcpy
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my_unexec
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newANONSUB||
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newPMOP||
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newSVpvn_flags 5.011000
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new_numeric 5.006000
new_stackinfo 5.005000
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nextargv
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ninstr
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no_fh_allowed
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perl_construct
perl_destruct
perl_free
perl_parse
perl_run
pidgone
pm_description
pmflag
pmop_dump
pmop_xmldump
pmruntime
pmtrans
pop_scope
pregcomp
pregexec
pregfree2
pregfree
prepend_elem
prepend_madprops
printbuf
printf_nocontext
process_special_blocks
ptr_table_clear
ptr_table_fetch
ptr_table_find
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
put_byte
pv_display
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re_dup_guts
re_intuit_start
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save_ary||
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save_delete||
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save_freeop||
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save_generic_pvref][5.006001]
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save_heck_flags][n
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save_hints||
save_hptr||
save_int||
save_item||
save_iv][5.005000]
save_lines||
save_list||
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save_magic||
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save_pushi32ptr||
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save_scalar||
save_set_svflags][5.009000]
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sv_add_backref||p
sv_backoff||p
sv_bless||p
sv_cat_decode||5.008001
sv_catpv_mg|5.004050|p
sv_catpvf_mg_nocontext||pvn
sv_catpvf_mg|5.006000|5.004000|pv
sv_catpvf_nocontext||vn
sv_catpv||5.004000|v
sv_catpvn_flags|5.007002
sv_catpvn_mg|5.004050|p
sv_catpvn_nomg|5.007002|p
sv_catpvn||p
sv_catpvs|5.009003|p
sv_catpv||p
sv_catcsv_flags|5.007002
sv_catcsv_mg|5.004050|p
sv_catcsv_nomg|5.007002|p
sv_catcsv||p
sv_catxmlpvn||
sv_catxmlsv||
sv_chop||
sv_clean_all||
sv_clean_objs||
sv_clear||
sv_cmp_locale|5.004000|
sv_cmp||
sv_collxfrm||
sv_compile_2op|5.008001|
sv_copypv|5.007003|
sv_dec||
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sv_dup_inc_multiple||
sv_dup||
sv_eq||
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sv_free2||
sv_free_arenas||
sv_free||
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sv_pos_u2b_cached||
sv_pos_u2b_forwards||n
sv_pos_u2b_midway||n
sv_pos_u2b[5.006000]
sv_pbytes_force[5.006000]
sv_pbytes[5.006000]
sv_pvbyte[5.006000]
sv_pvutf8_force[5.007002]p
sv_pvutf8_force||
sv_pvutf8_nomg[5.007003][5.005000]p
sv_pvutf8[5.005000]
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sv_ref||
sv_release_COW||
sv_replace||
sv_report_used||
sv_reset||
sv_rvweaken[5.006000]
sv_setiv_mg[5.004050]p
sv_setiv
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sv_setnv
sv_setpv_mg[5.004050]\textsc{p}
sv_setpvmg_nocontext[\textsc{p}n]
sv_setpvmg[5.004000]\textsc{p}
sv_setpv
\textsc{v}n
sv_setpvn
sv_setpvcow
sv_setsv
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sv_setref_uv[5.007001]
sv_setsvcow
sv_setsv
sv_setpvf
sv_setpvn
sv_setuv
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v tainted[5.004000]
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sv_unglob
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sv_unmagic
sv_unref
sv_unref_flags[5.007001]
sv_unref
sv_untaint[5.004000]
sv_upgrade
sv_usepvn
sv_usepvn_flags[5.009004]
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sv_usepvn
sv_utf8_decode[5.006000]
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sv_utf8_encode[5.006000]
sv_utf8_upgrade_flags gorge[5.011000]
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warner|5.006000|5.004000|pv
warn||v
watch||
whichsig||
write_no_mem||
write_to_stderr||
xml_dump_all||
xml_dump_attr||
xml_dump_eval||
xml_dump_form||
xml_dump_indent||
xml_dump_packsubs||
xml_dump_sub||
xml_dump_vindent||
yyerror||
yylex||
yyparse||
yywarn||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;
    $code =~ s{ /?\(//?
| "[^"\\]*(?:\\.)*" }{}egsx;
    grep { exists $API{$_} } $code =~ /\w+/mg;
}

while (<DATA>) {
    if ($hint) {
        my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
    }

if (m{\^s*.*\s*\s*}) {  
    for (@{$hint->[1]}) {  
        $h->{$_} ||= '';  # suppress warning with older perls  
        $h->{$_} .= "$1
";  
    }  
} else { undef $hint }  
}  

$hint = [$1, [split /,\s+/, $2]]  
    if m{\^s*srccs\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*;\s*};  

if ($define) {  
    if ($define->[1] =~ /=\$/) {  
        $define->[1] = $_.;  
    } else {  
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_/) {  
            my @n = find_api($define->[1]);  
            push @{$depends{$define->[0]}}, @n if @n  
        }  
        undef $define;  
    }  
}  

$define = [$1, $2] if m{\^s*#\s*define\s+(\w+(?:\(\[^\)]*\))\s*};  

if ($function) {  
    if (/\^/) {  
        if (exists $API{$function->[0]} && $function->[1] !~ /^DPPP_/) {  
            my @n = find_api($function->[1]);  
            push @{$depends{$function->[0]}}, @n if @n  
        }  
        undef $function;  
    } else {  
        $function->[1] .= $_;  
    }  
}  

$function = [$1, "$"] if m{\^DPPP\s_(my\(_\s+w+\))};  

$replace = $1 if m{\^s*srccs\s+Replace:\s+(?d+)\s+srccs\s*};  
$replace{2} = $1 if $replace and m{\^s*#\s*define\s+(\w+)(?!\([^\)]\))\s*};  
$replace{2} = $1 if m{\^s*#\s*define\s+(\w+)(?!\([^\)]\))\s+;}  
$replace{2} = $1 if m{\^s*srccs\s+Replace\s+(\w+)\s+srccs\s*};  
$replace{1} = $2 if m{\^s*srccs\s+Replace\s+(\w+)\s+srccs\s*};  

if (m{\^s*srccs\s+(?d+)\s*\s*depends\s+on\s+\s+\s*}) {  

my @deps = map { s/\s+//g; $_ } split /,/, $3;
my $d;
for $d (map { s/\s+//g; $_ } split /,/, $1) {
push @{$depends{$d}}, @deps;
}
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}
if (exists $opt{'api-info'}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base.\n";
$info++;
}
if ($API{$f}{provided}) {
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo.\n";
print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
print "\n$hints{$f}" if exists $hints{$f};
print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {

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next unless $API{$_}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$_};
push @flags, 'depend' if exists $depends{$_};
push @flags, 'hint' if exists $hints{$_};
push @flags, 'warning' if exists $warnings{$_};
my $flags = @flags ? ['join(', @flags).'] : ""
print "$$_$flags\n";
}
exi 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc);
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
  if (-f) {
push @files, $_ unless $seen{$_}++;
  } else { warn "$_ is not a file\n" }
  }
else { my @new = grep { -f } glob $_
or warn "$_ does not exist\n";
push @files, grep { !$seen{$_}++ } @new;
  }
}
else {
eval {
  require File::Find;
  File::Find::find(sub {
    $File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
  }, '.');
};
if ($@) {
  @files = map { glob "*$_" } @srcext;
}
}

if (!@ARGV || $opt{filter}) {
  my(@in, @out);
  my %xsc = map { /(^.*).xs$/ ? { "$1.c" => 1, "$1.cc" => 1 } : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;

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for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s

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my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

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for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}[$func]) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
    format_version($API{$func}{todo}), ", even with '$ppport\n"
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_$func\GLOBAL if $func is never used";
  } elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_$func\GLOBAL when already needed globally";
    } elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_$func\GLOBAL when only used in this file";
    }
  }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^([^$HS*#]*define[^$HS+]+NEED_+$func[_GLOBAL]*[^;]+$[SLF]*)//mg);
}

$file{needs_inc_ppport} = keys %{file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ""
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_\$type"}[\$func]) {
            if ($type eq 'global') {
                diag("Files [@ {global{needs}[$func]}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix
"
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#*define$HS+NEED_ \w+/)$pp/m)) {
        $pp = "";
        $file{changes} ++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include $ppport");
        $pp .= qq(#include "$ppport"
)    }
    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*#*include.*\Q$ppport\E.*?$LF//m)) {
            $pp = "";
            $file{changes} ++;
        }

        unless ($file{has_inc_ppport}) {
            diag("No need to include $ppport");
            $file{changes} += ($c =~ s/^(?=$HS*#*include.*\Q$ppport\E.*?$SLF//m)) {
        }
    }
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcces/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcces/$ccom[$ix]/;
  }
}
if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");
if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile' already exists, refusing to write copy of "$filename")
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of "$filename' with changes to '$newfile'";
        print F $c;
        close F;
      } else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  } elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        } else {
          error("Cannot open '$opt{patch}' for writing: $!");
        }
      }
    }
  } else {
    info("No changes found in "$filename".");
  }
}
else {
    error("Cannot open "quote opt{patch}" for writing: $!";)
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff(*PATCH, $filename, Sc);
}
else {
fallback:
    info("Suggested changes:");
    mydiff(*STDOUT, $filename, Sc);
}
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched

    }
if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

sub run_diff {
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/$tmp$\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    }
    else {
        error("Cannot open '$tmp' for writing: $!");
    }

    unlink $tmp;
}
else {
    }
sub rec_depend
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;
    if ($ver =~ /(^d+).(^d+).(^d+)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /\d+\[\d_]+$/) {
        die "cannot parse version \$ver\n";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /(^d+)(^d\3)/;
    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version \$ver\n";
        }
    }
    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;
    $ver =~ s/$/000000/;
    return ($ver);
}
my($r,$v,$s) = $ver =~ /\d+/\.(\d{3})\.(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "invalid version $ver\n";
  }
  $s /= 10;

  $ver = sprintf "%.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%.02d", $s;

  return $ver;
}

return sprintf "%.%d.%d\", $r, $v, $s;

sub info {
  $opt{quiet} and return;
  print @_, "\n";
}

sub diag {
  $opt{quiet} and return;
  $opt{diag} and print @_, "\n";
}

sub warning {
  $opt{quiet} and return;
  print "*** \", @_, "\n";
}

sub error {
  print "*** ERROR: \", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint {
  $opt{quiet} and return;
}
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";

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Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X \$0 --unstrip

---
abstract: 'Perl interpreter-based threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Hash::Util: 0
  IO::File: 0
  Test::More: 0
  XSLoader: 0
  overload: 0
  strict: 0
  warnings: 0
version: 1.87

Found in path(s):
  * /opt/cola/permits/1152389634_1618226241.08/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-NO6KmOjn/threads-1.87.tar.gz-cosi-expand-archive-nrLcaPZa/threads-1.87/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

This document describes threads version 1.87

=head1 SYNOPSIS

use threads ('yield',
  'stack_size' => 64*4096,"
'exit' => 'threads_only',
'constant');

sub start_thread {
    my @args = @_;  
    print("Thread started: ", join(" ", @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({'context' => 'list'},
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads-&gt;get_stack_size();
$old_size = threads-&gt;set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads-&gt;create({
    'context'    => 'list',
    'stack_size' => 32*4096,
    'exit'       => 'thread_only',
    
    &amp;foo);

# Get thread's context
my $wantarray = $thr-&gt;wantarray();

# Check thread's state
if ($thr-&gt;is_running()) {
    sleep(1);
}
if ($thr-&gt;is_joinable()) {
    $thr-&gt;join();
}

# Send a signal to a thread
$thr-&gt;kill('SIGUSR1');

# Exit a thread
threads-&gt;exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I&lt;interpreter threads&gt; which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I&lt;5005threads&gt; was available through the C&lt;Thread.pm&gt; API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L&lt;threads::shared&gt;:

use threads;
use threads::shared;

When loading L&lt;threads::shared&gt;, you must C&lt;use threads&gt; before you
It is strongly recommended that you enable threads via `use threads` as early as possible in your script.

If needed, scripts can be written so as to run on both threaded and non-threaded Perls:

```perl
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
    # Do processing using threads
    ...
} else {
    # Do it without using threads
    ...
}
```

The context (void, scalar or list) for the return value(s) for `join()` is determined at the time of thread creation.

```perl
my ($thr1) = threads->create(sub { ... });
```

The context (void, scalar or list) for the return value(s) of `create()` is determined at the time of thread creation.

```perl
my ($thr) = threads->create(FUNCTION, ARGS)
```

This will create a new thread that will begin execution with the specified entry point function, and give it the `ARGS` list as parameters. It will return the corresponding thread object, or `undef` if thread creation failed.

`FUNCTION` may either be the name of a function, an anonymous subroutine, or a code ref.
my @results = qw(a b c);
return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
    sub {
      my @results = qw(a b c);
      return (@results);
    });
# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
  });
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1},
    sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or
 detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will
cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be
discarded. When the program exits, any detached threads that are still
running are silently terminated.

If the program exits without all threads having either been joined or
detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread
will cause an error to be thrown.

=item threads->detach()
Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

use threads qw(stringify);

my $thr = threads->create(...);
print("Thread $thr started...
"); # Prints out: Thread 1 started...

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)
=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

```perl
if ($thr1 == $thr2) {
    print("Threads are the same\n");
} # or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}
```

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads->create>(), C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef> if the thread terminates I<normally>. Otherwise, it returns the value of C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This I<private> method returns the memory location of the internal thread structure associated with a threads object. For Win32, this is a pointer to the C<HANDLE> value returned by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer to the C<pthread_t> structure used in the
C<pthread_create> call (i.e., C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to L<return()|perlfunc/"return EXPR"> from the entry point function with the appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling C<threads-E<gt>exit()> . This will cause the thread to return C<undef> in a scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads-E<gt>exit()> (i.e., the exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<die()> in a thread indicates an abnormal exit for the thread. Any C<$SIG{__DIE__}> handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the C<die()> call.

=item exit(status)

Calling L<exit()|perlfunc/"exit EXPR"> inside a thread causes the whole application to terminate. Because of this, the use of C<exit()> inside threaded code, or in modules that might be used in threaded applications, is
strongly discouraged.

If C<exit()> really is needed, then consider using the following:

    threads->exit() if threads->can('exit');  # Thread friendly
    exit(status);

=item use threads 'exit' => 'threads_only'

This globally overrides the default behavior of calling C<exit()> inside a
thread, and effectively causes such calls to behave the same as
C<threads-E<gt>exit()>.

Because of its global effect, this setting should not be used inside modules
or the like.

The I<main> thread is unaffected by this setting.

=item threads->create({'exit' => 'thread_only'}, ...)

This overrides the default behavior of C<exit()> inside the newly created
thread only.

=item $thr->set_thread_exit_only(boolean)

This can be used to change the I<exit thread only> behavior for a thread after
it has been created. With a I<true> argument, C<exit()> will cause only the
thread to exit. With a I<false> argument, C<exit()> will terminate the
application.

The I<main> thread is unaffected by this call.

=item threads->set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the I<state> of a
thread.

=over
=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=back

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()> perlfunc/"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<-E<gt>join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<-E<gt>create()> with a hash reference as the first argument:

    my $thr = threads->create({'context' => 'list'}, \&foo);
...
    my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function C<foo> will be called in list (array) context such that the parent thread can receive a list (array) from the C<-E<gt>join()> call. (C<'array'> is synonymous with C<'list'>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:
my $thr = threads->create({‘context’ => ‘void’}, \&foo);
...
$thr->join();

The context type may also be used as the I<key> in the hash reference followed
by a I<true> value:

threads->create({‘scalar’ => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread’s context is implied from the context
of the C<-E<gt>create()> call:

# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);

=head2 $thr->wantarray()

This returns the thread’s context in the same manner as
L<wantarray()|perlfunc/>.

=head2 threads->wantarray()

Class method to return the current thread’s context. This returns the same
value as running L<wantarray()|perlfunc/> inside the current
thread’s entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies
significantly, and is almost always far more than is needed for most
applications. On Win32, Perl’s makefile explicitly sets the default stack to
16 MB; on most other platforms, the system default is used, which again may be
much larger than is needed.

By tuning the stack size to more accurately reflect your application’s needs,
you may significantly reduce your application’s memory usage, and increase the
number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads (‘stack_size’ => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{‘PERL5_ITHREADS_STACK_SIZE’}

The default per-thread stack size may be set at the start of the application through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:

PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5ITHREADS_STACK_SIZE
perl -e 'use threads; print(threads->get_stack_size(), "\n")'

This value overrides any C<stack_size> parameter given to C<use threads>. Its
primary purpose is to permit setting the per-thread stack size for legacy
threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call
C<-E<gt>create()> with a hash reference as the first argument:

my $thr = threads->create({'stack_size' => 32*4096}, \&foo, @args);

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an
existing thread (C<$thr1>). This is shorthand for the following:

my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size}, FUNCTION, ARGS);

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals">
for more details), then signals may be sent and acted upon by individual
threads.

=over 4

=item $thr->kill('SIG...');

Sends the specified signal to the thread. Signal names and (positive) signal
numbers are the same as those supported by
L<kill()>|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and
(depending on the OS) 15 are all valid arguments to C<-E<gt>kill()>.

Returns the thread object to allow for method chaining:

$thr->kill('SIG...')->join();

=back

Signal handlers need to be set up in the threads for the signals they are
expected to act upon. Here's an example for I<cancelling> a thread:
use threads;

sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); };

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary I<suspend> and I<resume> capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

...
# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It _emulates_ signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending `C<$thr-E<gt>kill('STOP')>` does not actually suspend a thread (or the whole process), but does cause a `C<$SIG{'STOP'}>` handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the `C<kill()>` command (e.g., `C<kill('KILL', $$)>`) are okay to use with the `C<-E<gt>kill()>` method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is _stuck_ on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:
If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the _main_ thread exits, then this warning cannot be suppressed using `C<no warnings 'threads';>` as suggested below.

=item Thread creation failed: pthread_create returned #
See the appropriate _man_ page for `C<pthread_create>` to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...
A thread terminated in some manner other than just returning from its entry point function, or by using `C<threads-E<gt>exit()>`. For example, the thread may have terminated because of an error, or by using `C<die>`.

=item Using minimum thread stack size of #
Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

$thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C<-E<gt>kill()> call.
BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

Thread-safe modules

See L<perlmod/"Making your module threadsafe"> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module-&gt;import(...);

    ....
}

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<-E&lt;gt;import()>) after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then...
C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<queues|Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using C<chdir()> will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using C<system()> or back-ticks) made from threads use the environment variable settings from the I<main> thread. In other words, changes made to C<%ENV> in a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call. For example:

my $msg = 'hello';
system("FOO=$msg; echo \\
FOO");  # Outputs 'hello' to STDOUT

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than L</"THREAD SIGNALLING"> as documented above will not accomplish what is intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> to relay the signal to the thread:

# Create thread with a task that may time out
my $thr->create(sub { threads->yield();
    eval {
        SSIG\{ALRM\} = sub { die("Timeout\n");
    alarm(10);
... # Do work here
    alarm(0);
};
if ($@ =~ /Timeout/) {
    warn("Task in thread timed out\n");
}
#
# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') }
;
...
# Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Creating threads inside special blocks

Creating threads inside C<BEGIN>, C<CHECK> or C<INIT> blocks should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/Safe Signals> and L<perlipc/Deferred Signals (Safe Signals)> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/PERL_SIGNALS>).

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt>kill()> signalling method cannot be used.
Returning closures from threads should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

Returning objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared/"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

It is possible to add L<END blocks|perlmod/"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc/"require VERSION"> or L<eval|perlfunc/"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the
latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

L<threads> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads>

L<threads::shared>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

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=head1 LICENSE

threads is released under the same license as Perl.

=head1 ACKNOWLEDGEMENTS

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Helping with debugging

Dean Arnold E<lt>darnold AT presicient DOT com<gt> -
Stack size API

=cut

Found in path(s):
* /opt/cola/permits/1152389634_1618226241.08/0/perl-threads-1.87-1.src.rpm-cosi-expand-archive-
NO6KmOjn/threads-1.87.tar.gz-cosi-expand-archive-nrLcaPZa/threads-1.87/lib/threads.pm

1.1009 elfutils 0.176-5.el7

1.1009.1 Available under license:
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1.1014 google-api-services-cloudkms v1-rev9-1.22.0

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```xml
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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  <packaging>jar</packaging>

  <inceptionYear>2011</inceptionYear>

  <organization>
    <name>Google</name>
    <url>http://www.google.com/</url>
  </organization>

  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    </license>
  </licenses>

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    <plugins>
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<link>http://javadoc.google-oauth-java-client.googlecode.com/hg/1.22.0</link>
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</plugin>

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</dependency>
</dependencies>
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</properties>
</project>

Found in path(s):
* /opt/cola/permits/1137993859_1614192772.84/0/google-api-services-cloudkms-v1-rev9-1-22-0-sources-2-jar/pom.xml

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1.1015 mongo-java-driver 3.5.0
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  jar/com/mongodb/internal/event/ConnectionPoolListenerMulticaster.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/DescriptionHelper.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/DefaultServerMonitorFactory.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ClusterListenerAdapter.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/org/bson/BSONCallback.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/DefaultServer.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ClusterListener.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ClusterOpeningEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/MongoCredential.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ConnectionPoolOpenedEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ClusterDescription.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/netty/NettyStream.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ChangeEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/util/JSONCallback.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/BaseCluster.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/DefaultServerMonitor.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/ChangeEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/BSONCallback.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/util/JSONCallback.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/BaseCluster.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/EmptyBSONCallback.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/ClusterDescriptionChangedEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/org/bson/types/BasicBSONList.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/connection/SaslAuthenticator.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/ValueCodecProvider.java

*/
jar/org/bson/codecs/pojo/annotations/package-info.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/ReaderMark.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonId.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/BigDecimalCodec.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/PojoCodecProvider.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/PropertySerialization.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/codecs/pojo/MapCodec.java

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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/connection/QueryMessage.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/ListCollectionsOperation.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/BsonInt64.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/BsonJavaScript.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/BsonMaxKey.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/connection/DeleteProtocol.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/connection/ByteBufferBsonOutput.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/ListIndexesOperation.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/connection/WriteCommandProtocol.java

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  jar/com/mongodb/event/ServerClosedEvent.java
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  jar/org/bson/codecs/IterableCodecProvider.java
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  jar/com/mongodb/event/ServerHeartbeatFailedEvent.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/types/Decimal128.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/client/model/BucketAutoOptions.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/DropIndexOperation.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/CreateCollectionOperation.java

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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/DropIndexOperation.java

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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/GridFSFindIterable.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/model/package-info.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/model/GridFSUploadOptions.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/package-info.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/ValidationAction.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/IndexOptionDefaults.java
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**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 * *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 * *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 * *
 * @return an array containing all of the elements in this deque
 */

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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/org/bson/json/StrictCharacterStreamJsonWriter.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/WriteConcernHelper.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/event/ServerEventMulticaster.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/event/ConnectionCheckedOutEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/CreateViewOperation.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/client/jndi/package-info.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/internal/connection/SniSslHelper.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/event/ConnectionOpenedEvent.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/operation/CreateViewOperation.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-jar/com/mongodb/event/ServerMonitorEventMulticaster.java

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jar/com/mongodb/client/model/geojson/codecs/PointCodec.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
jar/org/bson/codecs/AtomicBooleanCodec.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
jar/com/mongodb/client/model/geojson/codecs/GeometryDecoderHelper.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
jar/org/bson/codecs/CharacterCodec.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/IndexModel.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/ListCollectionsIterable.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/Polygon.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/Geometry.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/operation/QueryHelper.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/ListIndexesIterable.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/NamedCoordinateReferenceSystem.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/codecs/package-info.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/event/CommandListenerMulticaster.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/ListDatabasesIterable.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/Point.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/codecs/package-info.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/client/model/geojson/LineString.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1.jar/com/mongodb/bulk/IndexRequest.java
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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/TagSet.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/MongoWriteException.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/connection/DefaultAuthenticator.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/CursorType.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/binding/AbstractReferenceCounted.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/Tag.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/MongoNotPrimaryException.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/MongoWriteConcernException.java
* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
  jar/com/mongodb/MongoNodeIsRecoveringException.java

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* /opt/cola/permits/1136662388_1613850441.73/0/mongo-java-driver-3-5-0-sources-1-
1.1016 org.apache.servicemix.bundles.josql
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-- activemq-web

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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 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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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
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1.1027 aopalliance-repackaged 1.3.1.34-1.ph2

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Found in path(s):
* /opt/cola/permits/1227605317_1637909859.40/aopalliance-repackaged-2-4-0-b34-sources-1-jar/pom.xml

1.1028 pkg-config 0.27.1 4.el7

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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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  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java

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  jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/access/BeanFactoryReference.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/no/NoUniqueBeanDefinitionException.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-
  jar/org/springframework/beans/factory/support/GenericTypeAwareAutowiredCandidateResolver.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/PropertyEditors/TimeZoneEditor.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/support/BeanConfigurerSupport.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/support/SimpleAutowiredCandidateResolver.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /opt/cola/permits/1152321810_1618219384.19/0/spring-beans-4-2-1-release-sources-2-jar/org/springframework/beans/SimpleTypeConverter.java

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*/
1.1047 jcl-over-slf4j 1.6.6

1.1048 spring-security-ldap 3.1.4.RELEASE

1.1048.1 Available under license:

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* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2-
  jar/org/springframework/security/ldap/authentication/ad/ActiveDirectoryLdapAuthenticationProvider.java
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* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/server/ApacheDSContainer.java
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/ppolicy/PasswordPolicyResponseControl.java
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/userdetails/LdapUserDetailsMapper.java
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/authentication/LdapAuthenticator.java

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Found in path(s):
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/LdapUtils.java
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/userdetails/LdapUserDetailsMapper.java
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2.jar/org/springframework/security/ldap/authentication/LdapAuthenticator.java
* /opt/cola/permits/1148131136_1632505937.91/0/spring-security-ldap-3-1-4-release-sources-2-
1.1049 esapi 2.0GA

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 */
The method is ESAPI's Key Derivation Function (KDF) that computes a
derived key from the \[\text{@code keyDerivationKey}\] for either
encryption / decryption or for authentication.

 CAUTION: If this algorithm for computing derived keys from the
key derivation key is ever changed, we risk breaking backward compatibility of being
able to decrypt data previously encrypted with earlier / different versions
of this method. Therefore, do not change this unless you are 100% certain that
what you are doing will NOT change either of the derived keys for
ANY "key derivation key" AT ALL!!!

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

 @param keyDerivationKey A key used as an input to a key derivation function
to derive other keys. This is the key that generally
is created using some key generation mechanism such as
\[\text{@link #generateSecretKey(String, int)}\]. The
"input" key from which the other keys are derived.
The derived key will have the same algorithm type
as this key.

 @param keySizeThe cipher's key size (in bits) for the \[\text{@code keyDerivationKey}\].
Must have a minimum size of 56 bits and be an integral multiple of 8-bits.

 Note: The derived key will have the same size as this.

 @param purposeThe purpose for the derived key. Must be either the
string "encryption" or "authenticity". Use "encryption" for
creating a derived key to use for confidentiality, and "authenticity"
for a derived key to use with a MAC to ensure message authenticity.

 The derived \[\text{@code SecretKey}\] to be used according
to the specified purpose. Note that this serves the same purpose.
* as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The {code keyDerivationKey} has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original {code UnsupportedEncodingException}
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use {code KeyDerivationFunction} instead. This method will be removed as of
* ESAPI release 2.1 so if you are using this, please change your code.
*/
/**
** Return true if specified cipher mode is one of those specified in the
* [code ESAPI.properties] file that supports both confidentiality
* <b>and</b> authenticity (i.e., a "combined cipher mode" as NIST refers
* to it).
* @param cipherMode The specified cipher mode to be used for the encryption
* or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
* of cipher modes supporting both confidentiality and authenticity;
* otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/crypto/CryptoHelper.java
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* @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/
Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/LogFactory.java
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 * @author Patrick Higgins
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
 * *
 * @created 2007
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Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/DefaultValidator.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/
/**
* Encrypts the provided plaintext and returns a ciphertext string using the 
* master secret key and default cipher transformation.
* </p><p>
* <b>Compatibility with earlier ESAPI versions:</b> The symmetric encryption 
* in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4 
* or earlier. Not only are the interfaces slightly different, but they format 
* of the serialized encrypted data is incompatible. Therefore, if you have 
* encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and 
* then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4 
* was proposed to both the ESAPI Developers and ESAPI Users mailing lists 
* and voted down. More details are available in the ESAPI document 
* <p>
* <b>Why this method is deprecated:</b> Most cryptographers strongly suggest 
* that if you are creating crypto functionality for general-purpose use, 
* at a minimum you should ensure that it provides authenticity, integrity, 
* and confidentiality. This method only provides confidentiality, but not 
* authenticity or integrity. Therefore, you are encouraged to use 
* one of the other encryption methods referenced below. Because this 
* method provides neither authenticity nor integrity, it may be 
* removed in some future ESAPI Java release. Note: there are some cases 
* where authenticity / integrity are not that important. For instance, consider 
* a case where the encrypted data is never out of your application's control. For 
* example, if you receive data that your application is encrypting itself and then 
* storing the encrypted data in its own database for later use (and no other 
* applications can query or update that column of the database), providing 
* confidentiality alone might be sufficient. However, if there are cases 
* where your application will be sending or receiving already encrypted data 
* over an insecure, unauthenticated channel, in such cases authenticity and 
* integrity of the encrypted data likely is important and this method should
@param plaintext  
  the plaintext { @code String} to encrypt. Note that if you are encrypting
  general bytes, you should encrypt that byte array to a String using
  "UTF-8" encoding.

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

@see #encrypt(PlainText)
@see #encrypt(SecretKey, PlainText)

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

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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/Encryptor.java
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 */

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

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* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/FileBasedAuthenticator.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/HTTPUtilities.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/reference/Log4JLoggerFactory.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
/**
 * [ @inheritdoc ]
 *
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each
 * executable must be listed as an approved executable in the ESAPI properties. The executable must also
 * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
 * you are going to invoke this interface with confidential information.
 */

Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/reference/DefaultExecutor.java

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/**
 * This methods adds a provider to the [ @code SecurityManager]
 * either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
* <ul>
  * <li>SunJCE</li>
  * <li>IBMJCE [for WebSphere]</li>
  * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
  * <li>BC [i.e., Bouncy Castle]</li>
  * <li>IAIK</li>
  * <li>CryptixCrypto (or Cryptix)</li>
  * <li>ABA</li>
* </ul>

* Note that neither Cryptix or ABA are actively maintained so
  it is recommended that you do not start using them for ESAPI
  unless your application already has a dependency on them. Furthermore,
  the Cryptix JCE jars likely will not work as the Cryptix code signing
  certificate has expired as of August 28, 2009. (This likely is true
  for ABA, but I can't even find a copy to download!). Lastly, the IAIK
  provider is no longer offered as free, open source. It is not a
  commercial product. See [ @link http://jce.iaik.tugraz.at/] for
  details. While some older versions were offered free, it is not clear
  whether the accompanying license still allows you to use it, and if
  it does, whether or not the code signing certificate used to sign
  their JCE jar(s) has expired are not. Therefore, if you are looking
  for a FOSS alternative to SunJCE, Bouncy Castle
  ([ @link http://www.bouncycastle.org/] is probably your best bet. The
  BC provider does support many of the "combined cipher modes" that provide
  both confidentiality and authenticity. (See the [@code ESAPI.properties]
  property [@code Encryptor.cipher_modes.combined_modes] for details.)
* </p>

* For those working in the U.S. federal government, it should be noted
  that <i>none</i> of the providers listed here are considered validated
  by NIST's Cryptographic Module Validation Program and are therefore
  not considered FIPS 140-2 compliant. There are a few approved
  JCE compatible Java libraries that are on NIST's CMVP list, but this
  list changes constantly so they are not listed here. For further details
  on NIST's CMVP, see
  [ @link http://csrc.nist.gov/groups/STM/cmvp/index.html].
* </p>

* Finally, if you wish to use some other JCE provider not recognized above,
  you must specify the provider's fully-qualified class name (which in
  turn must have a public, no argument constructor).
* </p>

* The application must be given the [@code SecurityPermission] with a
  value of [@code insertProvider.&lt;provider_name&gt;] (where
  &lt;provider_name&gt; is the name of the algorithm provider if
  a security manager is installed.
* </p>

* @param algProvider Name of the JCE algorithm provider. If the name
  contains a ".", this is interpreted as the name
of a `@code java.security.Provider` class name.

* @param pos   The preference position (starting at 1) that the
  caller would like for this provider. If you wish
  for it to be installed as the `<i>last</i>` provider
  (as of the time of this call), set `@code pos` to -1.

* @return The actual preference position at which the provider was added,
  or -1 if the provider was not added because it is already
  installed.

* @exception NoSuchProviderException - thrown if the provider class
  could not be loaded or added to the `@code SecurityManager` or
  any other reason for failure.

*/

Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
  jar/org/owasp/esapi/crypto/SecurityProviderLoader.java

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 * @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
 * @created 2009
 */

Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
  jar/org/owasp/esapi/util/DefaultMessageUtil.java

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jar/org/owasp/esapi/codecs/DB2Codec.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

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

Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/errors/IntrusionException.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {@code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 *
 * @param keyDerivationKey a key derived from the
 * @return the derived key
 *
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 */
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!

* \texttt{sp}

* \texttt{b}

* \texttt{NOTE:}</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class \texttt{@code JavaEncryptor}
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.

* \texttt{@param keyDerivationKey \ A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* \texttt{@link \#generateSecretKey(String, int)}. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* \texttt{@param keySize The cipher's key size (in bits) for the \texttt{@code keyDerivationKey}.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* \texttt{b}\texttt{Note:}\texttt{b} The derived key will have the same size as this.
* \texttt{@param purpose The purpose for the derived key. For the ESAPI reference implementation,
* \texttt{@code JavaEncryptor}, this \texttt{must} be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than \texttt{@code null} or an empty string when called outside
* of \texttt{@code JavaEncryptor}.
* \texttt{@return The derived \texttt{@code SecretKey} to be used according
* to the specified purpose.
* \texttt{@throws NoSuchAlgorithmException The \texttt{@code keyDerivationKey} has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* \texttt{@throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
* this is thrown with the original \texttt{@code UnsupportedEncodingException}
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* \texttt{@throws InvalidKeyException Likely indicates a coding error. Should not happen.
* \texttt{@throws EncryptionException Throw for some precondition violations.
*/

Found in path(s):
/\texttt{opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/crypto/KeyDerivationFunction.java}
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
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jar/org/owasp/esapi/tags/BaseEncodeTag.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/tags/EncodeForHTMLTag.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
jar/org/owasp/esapi/tags/EncodeForHTMLAttributeTag.java
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

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

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 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

/**
 * Return a { @code List} of strings of combined cipher modes that support
 * <b>both</b> confidentiality and authenticity. These would be preferred
 * cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit separate MAC is calculated as part of
* the [code CipherText] object upon encryption nor is any attempt made
* to verify the same on decryption.
*
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* [code Encryptor.cipher_modes.combined_modes].
*
* @return The parsed list of comma-separated cipher modes if the property
* was specified in [code ESAPI.properties]; otherwise the empty list is
* returned.
*/

Found in path(s):
*/opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/SecurityConfiguration.java
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*@
* @created 2007
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Found in path(s):
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* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/Logger.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/errors/AuthenticationCredentialsException.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/PushbackString.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/errors/AuthenticationLoginException.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/PushbackString.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/errors/AuthenticationLoginException.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/PushbackString.java
jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/User.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/Authenticator.java
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* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/errors/ValidationAvailabilityException.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/codecs/CSSCodec.java

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  jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-
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 * @author Chris Schmidt (chris.schmidt@owasp.org)
 * @created 2010
 */

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  jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 */
The `<tt>options</tt>` parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as `<tt>encodeBytes( bytes, options )</tt>` the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds (though that breaks strict Base64 compatibility), and encoding using the URL-safe and Ordered dialects.</p>

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

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

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

### Change Log:

- **v2.2.2** - Fixed `encodeFileToFile` and `decodeFileToFile` to use the `Base64.InputStream` class to encode and decode on the fly which uses less memory than encoding/decoding an entire file into memory before writing.
- **v2.2.1** - Fixed bug using `URL_SAFE` and `ORDERED` encodings. Fixed bug when using very small files (~< 40 bytes).
- **v2.2** - Added some helper methods for encoding/decoding directly from one file to the next. Also added a `main()` method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
  - The default is RFC3548 format.
  - Calling `Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT)` generates URL and file name friendly format as described in Section 4 of RFC3548. [http://www.faqs.org/rfcs/rfc3548.html](http://www.faqs.org/rfcs/rfc3548.html)
  - Calling `Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT)` generates URL and file name friendly format that preserves lexical ordering as described in [http://www.faqs.org/qa/rfc-1940.html](http://www.faqs.org/qa/rfc-1940.html)
- **v2.1** - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
- **v2.0.2** - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
- **v2.0.1** - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
- **v2.0** - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
  * when data that's being decoded is gzip-compressed and will decompress it
  * automatically. Generally things are cleaner. You'll probably have to
  * change some method calls that you were making to support the new
  * options format (<tt>int[]</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
  * byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
  * Added the ability to "suspend" encoding in the Output Stream so
  * you can turn on and off the encoding if you need to embed base64
  * data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
  * This helps when using GZIP streams.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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  * periodically to check for updates or to contribute improvements.
* </p>

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

Found in path(s):
* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2-jar/org/owasp/esapi/codecs/Base64.java
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 * @created 2007
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/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 * the command to execute
 * @param params
 * the parameters of the command being executed
 * @param workdir
 * the working directory
 * @param codec
 * the codec to use to encode for the particular OS in use
 * @param logParams
 * use false if any parameters contains sensitive or confidential information
 *
 * @return the output of the command being run
 *
 * @throws ExecutorException
 * the service exception
 */
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 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
 */

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* /opt/cola/permits/1197375257_1630043129.64/0/esapi-2-0ga-sources-2.jar/org/owasp/esapi/waf/configuration/ConfigurationParser.java
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The End

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 * Remy Card <card@Linux.EU.Org>, 1994-1997
 * Stelian Pop <stelian@popies.net>, 1999-2000
 * Stelian Pop <stelian@popies.net> - Alcve <www.alcove.com>, 2000-2002
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* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4-3-30-release-sources-1-
  jar/org/springframework/http/client/AsyncHttpClientHttpRequestFactory.java
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* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4-3-30-release-sources-1.jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java

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* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4.3-30-release-sources-1.jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4.3-30-release-sources-1.jar/org/springframework/web/accept/ContentNegotiationStrategy.java
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* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4-3-30-release-sources-1-jar/org/springframework/web/bind/annotation/RequestBody.java
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* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4-3-30-release-sources-1-jar/org/springframework/web/context/support/AbstractJaxb2HttpMessageConverter.java
* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4-3-30-release-sources-1-jar/org/springframework/http/client/BufferingClientHttpRequestFactory.java
* /opt/cola/permits/1137268530_1614043101.68/0/spring-web-4-3-30-release-sources-1-jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
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* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/scheduling/aspectj/AbstractAsyncExecutionAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/transaction/aspectj/AnnotationTransactionAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-jar/org/springframework/scheduling/aspectj/AnnotationAsyncExecutionAspect.aj

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* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-
  jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-
  jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-
  jar/org/springframework/beans/factory/aspectj/AbstractBeanConfigurerAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-
  jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-
  jar/org/springframework/beans/factory/aspectj/GenericInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1150871905_1617712716.31/0/spring-aspects-3-0-7-release-sources-2-
  jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj

1.1065 svnkit 1.8.7

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1.1066 python-pyasn1 0.1.9 7.el7

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

Yes to both questions.

Thanks,
Jorge

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

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

Okay, a few more questions:

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

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

* Currently, the Mesa config option for MLAA says: "Morphological
Hi Tom,

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

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

Cheers,
Jorge

---

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

Jorge,

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

The license says:

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

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

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

OR

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

*****

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

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

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1.1070 slf4j-simple 1.7.30
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1.1071 python-six 1.9.0 2.el7

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1.1073 kafka-clients 1.0.0

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1.1074 jersey-server 1.5

1.1075 activemq-openwire-legacy 5.16.1
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  jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
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1.1082 transactions 3.7.0

1.1083 xerces-j 2.11.0

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1.1084 libpwquality 1.2.3 5.el7

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1.1087 pycparser 2.20
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1.1088 smackx 1.7.8

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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 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.

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.

View technologies that support this contract can obtain an instance to delegate to via `RequestContext#getRequestDataValueProcessor()`.

@since 3.1

Found in path(s):

```
/opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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/** XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * The XSLT Source object is supplied as a parameter in the model and then
 * [link #locateSource] 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.
 *
 * All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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* /opt/cola/permissions/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
jar/org/springframework/web/servlet/view/xslt/XsltView.java

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jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
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jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
jar/org/springframework/web/servlet/support/JstlUtils.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
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* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMapMethodArgumentResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/resources/GzipResourceResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/tags/fragment/AcceptHeaderLocaleResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/resource/PathResourceResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
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* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
  jar/org/springframework/web/servlet/LocaleResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
  jar/org/springframework/web/servlet/config/annotation/ResourceChainRegistration.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
  jar/org/springframework/web/servlet/mvc/method/annotation/CompletionStageReturnValueHandler.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
  jar/org/springframework/web/servlet/mvc/method/annotation/RequestAttributeMethodArgumentResolver.java
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* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-
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* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1.jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
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* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1.jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1.jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1.jar/org/springframework/web/servlet/config/VelocityConfigurerBeanDefinitionParser.java
* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1.jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
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* /opt/cola/permits/1137268633_1614043351.52/0/spring-webmvc-4-3-30-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/SpringLocaleResolver.java
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1.1101 jstl 1.1.2

1.1102 derbylocale-fr 10.14.2.0

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  analysis/common/src/resources/org/apache/lucene/analysis/fa/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
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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  jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java

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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/support/DefaultIntroductionAdvisor.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAdvisorParameterNameDiscoverer.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/core/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/aop/support/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AdvisorChainFactory.java

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Jar org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/support/DynamicMethodMatcherPointcut.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/ConcurrentThrottleInterceptor.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/StaticMethodMatcher.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/autoproxy/TargetSourceCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/aop/support/RootClassFilter.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/aop/support/DynamicMethodMatcher.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/aop/target/ThreadLocalTargetSourceStats.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/aop/MethodBeforeAdvice.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/aop/PointcutAdvisor.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/framework/aop/target/PoolingConfig.java

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <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>
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    </xsl:text>
  </xsl:variable>
</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.1128 libbluray 0.2.3-6.el7

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

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

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

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1.1132 http2-hpack 9.4.11.v20180605

1.1133 jansson 2.10 1.el7

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1.1136 dyninst 9.3.1 3.el7

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* /opt/cola/permits/1111264677_1607987685.25/0/thymeleaf-layout-dialect-2-0-4-sources-1-
  jar/nz/net/ultraq/thymeleaf/includes/IncludeProcessor.java
* /opt/cola/permits/1111264677_1607987685.25/0/thymeleaf-layout-dialect-2-0-4-sources-1-
  jar/nz/net/ultraq/thymeleaf/decorators/DecorateProcessor.java
* /opt/cola/permits/1111264677_1607987685.25/0/thymeleaf-layout-dialect-2-0-4-sources-1-
  jar/nz/net/ultraq/thymeleaf/LayoutDialect.java
* /opt/cola/permits/1111264677_1607987685.25/0/thymeleaf-layout-dialect-2-0-4-sources-1-
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-
  jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-
  jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-
  jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-
  jar/org/springframework/transaction/support/TransactionTemplate.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-
  jar/org/springframework/transaction/support/SmartTransactionObject.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/jta/JtaTransactionObject.java

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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/CannotCreateRecordException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java

1.1146 activemq 5.5.1
1.1146.1 Available under license :

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-- activemq-web
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== For the behaviour.js library                                  ==
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--activemq-web-demo

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import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
    public PersistenceEntityCopyPolicy() {
        super();
    }

    public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }

    public Object buildClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }

    public boolean buildsNewInstance() {
        return false;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

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package org.eclipse.persistence.descriptors.copying;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p><b>Purpose</b>: Allows a clone of an object to be created with a method that returns
 * the cloned object.
 *
 * It is possible to define methods for two types of clones
 *
 * 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
 * own internal use. The objects created by this method will not be visible to the user, and
 * instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
 * also be in place of the workingCopyMethod if it is not provided
 *
 * 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
 * Object is registered in a UnitOfWork
 */
public class CloneCopyPolicy extends AbstractCopyPolicy {

    /** Allow for clone method to be specified. */
    protected String methodName;
    protected String workingCopyMethodName;
    protected transient Method method;
    protected transient Method workingCopyMethod;

    public CloneCopyPolicy() {

}
super();
}

/**
 * Clone through calling the clone method.
 */
public Object buildClone(Object domainObject, Session session) throws DescriptorException {
  // Must allow for null clone method for 9.0.4 deployment XML.
  if (this.getMethodName() == null) {
    return getDescriptor().getObjectBuilder().buildNewInstance();
  }
  try {
    if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
      try {
        return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject, new Object[0]));
      } catch (PrivilegedActionException exception) {
        Exception throwableException = exception.getException();
        if (throwableException instanceof IllegalAccessException) {
          throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(), this.getDescriptor(), throwableException);
        } else {
          throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(), this.getDescriptor(), throwableException);
        }
      }
    } else {
      return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
    }
  } catch (IllegalAccessException exception) {
    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(), this.getDescriptor(), exception);
  } catch (InvocationTargetException exception) {
    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(), this.getDescriptor(), exception);
  }
}

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
  if (this.getWorkingCopyMethodName() == null) {
    //not implemented to perform special operations.
    return this.buildClone(domainObject, session);
  }
}
try {
    if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()) {
        try {
            return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
                domainObject, new Object[0]));
        } catch (PrivilegedActionException exception) {
            Exception throwableException = exception.getException();
            if (throwableException instanceof IllegalAccessException) {
                throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
            } else {
                throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
            }
        }
    } else {
        return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new
            Object[0]);
    }
} catch (IllegalAccessException exception) {
    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), exception);
} catch (InvocationTargetException exception) {
    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), exception);
}

/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@Override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
    UnitOfWork uow) throws DescriptorException {
    // For now must preserve CMP code which builds heavy clones with a context.
    // Also preserve for clients who use the copy policy.
    ObjectBuilder builder = getDescriptor().getObjectBuilder();
    if (getWorkingCopyMethodName() != null) {
        Object original = builder.buildNewInstance();
        builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
        return buildWorkingCopyClone(original, query.getSession());
    } else {
        return builder.buildNewInstance();
    }

    /**
* Return the clone method.
*/
protected Method getMethod() {
    return method;
}

/**
* Return the clone method name.
*/
public String getMethodName() {
    return methodName;
}

/**
* Return the workingCopyClone method.
* This is used to clone within a unit of work.
*/
protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}

/**
* Return the workingCopyClone method name.
* This is used to clone within a unit of work.
*/
public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
* Validate and build the methods.
*/
public void initialize(Session session) throws DescriptorException {
    final Class javaClass = this.getDescriptor().getJavaClass();
    try {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() != null) {
            this.setMethod(Helper.getDeclaredMethod(javaClass, this.getMethodName(), new Class[0]));
        }
    } catch (NoSuchMethodException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    }
    if (this.getWorkingCopyMethodName() != null) {
        try {
            // Must allow for null clone method for 9.0.4 deployment XML.
            if (this.getWorkingCopyMethodName() != null) {
                this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));
            }
        } catch (NoSuchMethodException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getWorkingCopyMethodName(), this.getDescriptor(), exception));
        } catch (SecurityException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getWorkingCopyMethodName(), this.getDescriptor(), exception));
        }
    }
}
this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));

        } catch (NoSuchMethodException exception) {
            session.getIntegrityChecker().handleError(DescriptorsException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        }
        } catch (SecurityException exception) {
            session.getIntegrityChecker().handleError(DescriptorsException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        }
    }

/**
 * Set the clone method.
 */
protected void setMethod(Method method) {
    this.method = method;
}

/**
 * Set the clone method name.
 */
public void setMethodName(String methodName) {
    this.methodName = methodName;
}

/**
 * Set the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected void setWorkingCopyMethod(Method method) {
    this.workingCopyMethod = method;
}

/**
 * Set the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public void setWorkingCopyMethodName(String methodName) {
    this.workingCopyMethodName = methodName;
}

/**
 * Return false as a shallow clone is returned, not a new instance.
 */
public boolean buildsNewInstance() {
    return getMethodName() == null;
}
public String toString() {
       return Helper.getShortClassName(this) + "(" + this.getMethodName() + ");";
    }
}
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package org.eclipse.persistence.descriptors.copying;

import java.io *
import org.eclipse.persistence.exceptions *
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions *

/**
 * <p><b>Purpose</b>: Allows customization of how an object is cloned.
 * An implementer of CopyPolicy can be set on a descriptor to provide
 * special cloning routine for how an object is cloned in a unit of work.
 * By default the InstantiationCopyPolicy is used which creates a new instance of
 * the class to be copied into.
 * The CloneCopyPolicy can also be used that uses a clone method in the object
 * to clone the object. When a clone method is used it avoid the requirement of having to
 * copy over each of the direct attributes.
 */
public interface CopyPolicy extends Cloneable, Serializable {

/**
 * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
 */
Object buildClone(Object object, Session session) throws DescriptorException;

/**
 * Return a shallow clone of the object for usage with the unit of work working copy.
 */
Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

/**
 * Return an instance with the primary key set from the row, used for building a working copy during a unit of
 * work transactional read.
 */
Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException;

/**
 * Clone the CopyPolicy.
 */
Object clone();

/**
 * Allow for any initialization or validation required.
 */
void initialize(Session session) throws DescriptorException;

/**
 * Set the descriptor.
 */
void setDescriptor(ClassDescriptor descriptor);

/**
 * Return if this copy policy creates a new instance, vs a clone.
 */
boolean buildsNewInstance();
}

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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b>: This is the default copy policy.
 * It creates a copy by creating a new instance of the object and then using the
 * mappings specified for the object to populate the object.
 */
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
    public InstantiationCopyPolicy() {
        super();
    }

    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        return getDescriptor().getObjectBuilder().buildNewInstance();
    }

    public boolean buildsNewInstance() {
        return true;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;

/**
 * <p><b>Purpose</b>: Allows customization of how an object is cloned.
 * This class defines common behavior that allows a subclass to be used
 * and set on a descriptor to provide a special cloning routine for how an object
 * is cloned in a unit of work.
 */
public abstract class AbstractCopyPolicy implements CopyPolicy {
    protected ClassDescriptor descriptor;

    public AbstractCopyPolicy() {
        super();
    }

    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;

    /**
     * By default use the buildClone.
     */
    public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
        return buildClone(domainObject, session);
    }

    /**
     * INTERNAL:
     * Clones the CopyPolicy
     */
    public Object clone() {
        try {
            // clones itself
            return super.clone();
        } catch (Exception exception) {
            return null;
        }
    }

    public abstract Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey, UnitOfWork uow) throws DescriptorException {
        return this.descriptor.getObjectBuilder().buildNewInstance();
    }
}
protected ClassDescriptor getDescriptor() {
    return descriptor;
}

/**
 * Do nothing by default.
 */
public void initialize(Session session) throws DescriptorException {
    // Do nothing by default.
}

/**
 * Set the descriptor.
 */
public void setDescriptor(ClassDescriptor descriptor) {
    this.descriptor = descriptor;
}

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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
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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`
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- `analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
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<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us"/>

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*
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* 
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* <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/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/context/annotation/Conditional.java

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/**
 */
</p>
* <code>FactoryBean</code> that obtains a WebSphere <code>MBeanServer</code> reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
* available on WebSphere 5.1 and higher.

* <p>Exposes the <code>MBeanServer</code> for bean references.</p>
*<p>This <code>FactoryBean</code> is a direct alternative to <code>MBeanServerFactoryBean</code>,
* which uses standard JMX 1.2 API to access the platform's <code>MBeanServer</code>.
*<p>See the javadocs for WebSphere's</p>
* and
* <author Juergen Hoeller</author>
* <author Rob Harrop</author>
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
/*

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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/remoting/support/RemoteInvocationFactory.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/concurrent/ConcurrentMapCacheFactoryBean.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/support/StaticScriptSource.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/support/ScriptFactory.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/jmx/export/NotificationListenerBean.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/jmx/export/number/NumberStyleFormatter.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
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jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java

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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
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jar/org/springframework/validation/SmartValidator.java
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jar/org/springframework/framework/scripting/ScriptCompilationException.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/instrument/classloading/WeavingTransformer.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
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jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

Found in path(s):
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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  jar/org/springframework/scripting/ScriptEvaluator.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/context/annotation/Role.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/context/annotation/ComponentScans.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/context/PayloadApplicationEvent.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
  jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/context/event/EventListenerFactory.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/format/datetime/joda/PeriodFormatter.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/remoting/RemoteTimeoutException.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scheduling/support/CronTrigger.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/scripting/config/LangNamespaceHandler.java

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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/context/support/LiveBeansViewMBean.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1.jar/org/springframework/context/ApplicationContextException.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java

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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/index/CandidateComponentsIndex.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/ComponentScan.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/Bean.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/GroovyScriptFactory.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/context/annotation/SimpleCacheManager.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/jmx/support/RegistrationPolicy.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-
jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java

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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/validation/validation/annotation/Validated.java
* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/context/annotation/PropertySources.java
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* /opt/cola/permits/1135907559_1613628632.98/0/spring-context-5-2-9-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperation.java

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1.1161 perl-http-tiny 0.033 3.el7

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1.1167 test-container-initializer

9.4.11.v20180605

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223233907
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1.1168 pyParsing 1.5.6 9.el7

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1.1169 junixsocket-native 2.0.4
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1.1170 linux-firmware 15.32.2.9-79.el7

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1.1172 json-java 2.2.1-jdk15

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1.1173 spring-json 1.0

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1.1174 dejavu-fonts 2.33 6.el7

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1.1175 hikaricp-java7 2.4.13

1.1176 asm-all-repackaged 2.4.0-b10

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*/
/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
* version.
*
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see [ @link OpCodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [ @link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* [ @link Type#getName() getInternalName()]). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2.jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LocalVariableNode.java
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* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1152321564_1618219347.23/0/asm-all-repackaged-2-4-0-b10-sources-2-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LineNumberNode.java

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 */

/**
 * Creates a new [AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [Opcodes]).
 * @param name
* the method's name.
* @param desc
  * the method's descriptor (see {@link Type}).
* @param mv
  * the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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  jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink-signatures.properties
* /opt/cola/permits/1152321564_1618219347.23/0/asm-repackaged-2-4-0-b10-sources-2-
  jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1152321564_1618219347.23/0/asm-repackaged-2-4-0-b10-sources-2-
  jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink.properties

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     null if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the fist instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (exclusive). This
 *     array must have the same size as the 'start' array.
 * @param index
 *     the local variable's index in each range. This array must have
 *     the same size as the 'start' array.
 * @param desc
 *     the class descriptor of the annotation class.
 */

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  jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXCodeAdapter.java
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  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/ASMContentHandler.java
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  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXFieldAdapter.java
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  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/Processor.java

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/**

* Constructs a new [ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [ClassNode(int)]
* version.
*
* @throws IllegalStateException
*             If a subclass calls this constructor.
*/

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 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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1.1177 datanucleus-appengine 2.1.2

1.1178 ncurses 5.9 14.20130511.el7_4

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[This is the first released version of the library GPL. It is
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analogous to running a utility program or application program. However, in a
textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

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

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

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

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

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

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)  
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY 
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos 
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on 
   * loss of link, and correctly re-enable PHY when link is 
   * re-established. (put back CFG_PHYIE) 
   * 
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. 
   * 
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 
   * 
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
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*
* M. Welsh, 6 July 1996
*
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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* Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or <code>Collection</code> elements.

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

* @author Ben Alex

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* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/ProviderNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/core/GrantedAuthority.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/event/AuthenticationFailureCredentialsExpiredEvent.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/intercept/RunAsManagerImpl.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/AuthorizationServiceException.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/ProviderManager.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/AfterInvocationProvider.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/event/PublicInvocationEvent.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/SessionRegistryImpl.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null
 * in which case implementations should return false, as the null condition can be checked explicitly
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */
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* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java
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* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-
  jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java
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/**
 * Base64 encoder which is a reduced version of Robert Harder’s public domain implementation (version 2.3.7).
 * See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 * <p>
 * For internal use only.
 * 
 * @author Luke Taylor
 * @since 3.0
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-
  jar/org/springframework/security/crypto/codec/Base64.java
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/**
 * A token issued by [@link TokenService](#).
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
 * they can serve as identifying a unique user session. Implementations of [@link TokenService](#)
 * are free to use encryption or encoding strategies of their choice. It is strongly recommended that
 * keys are of sufficient length to balance safety against persistence cost. In relation to persistence
 * cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
/*
   Found in path(s):
   * /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-
     jar/org/springframework/security/core/token/Token.java
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   * @author Alan Stewart
   */

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     jar/org/springframework/security/authentication/encoding/Md4.java

1.1190 latencytop 0.5 13.el7
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* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/AuthenticationCancelledException.java
* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenIDConsumer.java
* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenIDAuthenticationFilter.java
* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenIDAuthenticationProvider.java
* /opt/ cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenIDAuthenticationToken.java
* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenID4JavaConsumer.java
* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenIDAuthenticationStatus.java
* /opt/cola/permits/1152477805_1618244811.02/0/spring-security-openid-3-0-5-release-sources-3-
jar/org/springframework/security/openid/OpenIDConsumerException.java

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1.1195 jetty-servlet 9.4.11.v20180605

1.1196 spring-js 2.2.1.RELEASE
1.1196.1 Available under license:
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* /opt/cola/permits/1136700241_1613864676.75/0/spring-js-2-2-1-release-sources-1-
jar/org/springframework/js/ajax/AjaxHandler.java
* /opt/cola/permits/1136700241_1613864676.75/0/spring-js-2-2-1-release-sources-1-
jar/org/springframework/js/resource/ResourceServlet.java
* /opt/cola/permits/1136700241_1613864676.75/0/spring-js-2-2-1-release-sources-1-
jar/org/springframework/js/ajax/tiles2/AjaxTilesView.java
* /opt/cola/permits/1136700241_1613864676.75/0/spring-js-2-2-1-release-sources-1-
jar/org/springframework/js/ajax/AjaxUrlBasedViewResolver.java

1.1197 slf4j 1.7.31
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*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/SubstituteLogger.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/spi/MDCAdapter.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
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*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/interfaces/LoggerFactory.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/interfaces/LoggerFactoryBase.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/interfaces/LocationAwareLogger.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
*/opt/cola/permits/1197630552_1630080660.21/0/slf4j-api-1-7-31-sources-jar/
1.1198 commons-cli 1.1

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* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/TypeHelper.java

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* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/constraints/NotEmpty.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/ModUtil.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/ConstraintMetaData.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/OverridingMethodMustNotAlterParameterConstraints.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/cfg/context/ConstraintMappingTarget.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfILong.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintTree.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContext.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/rule/OverridingMethodMustNotAlterParameterConstraints.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/annotationfactory/AnnotationDescriptor.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/constraints/LuhnCheck.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/internal/metadata/aggregated/rule/MethodConfigurationRule.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/hv/CNPJValidator.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/src/main/java/org/hibernate/validator/internal/metadata/descriptor/PropertyDescriptorImpl.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/src/main/java/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java
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/opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/hv/NotBlankValidator.java
/ opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/internal/metadata/provider/TypeAnnotationAwareMetaDataProvider.java
/ opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/internal/metadata/raw/ConstrainedParameter.java
/ opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/INTERNAL/mathinterpolation/ResourceBundleMessageInterpolator.java
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/ opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2.jar/org/hibernate/validator/constraints/EAN.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorContextImpl.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/HibernateValidatorConfiguration.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedFunctionMapper.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/classhierarchy/Filter.java
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* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForCharSequence.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/GetResources.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/cfg/context/ConstraintContextImplBase.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/engine/valuehandling/TypeResolverBasedValueUnwrapper.java
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* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/xml/GroupConversionBuilder.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/IgnoreJava6Requirement.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/xml/ValidationBootstrapParameters.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/ScriptAssertDef.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMaxValidatorForNumber.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/engine/groups/DefaultValidationOrder.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/hv/ModCheckValidator.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/Mod10CheckDef.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/MetaDataProviderKeyedByClassName.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/context/DefaultConstraintMapping.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/GetMethod.java
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/LoadClass.java
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 * Hibernate Validator, declare and validate application constraints
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 */

/*
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("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/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-
  jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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  jar/org/hibernate/validator/internal/metadata/core/package.html
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-
  jar/org/hibernate/validator/internal/xml/package.html
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-
  jar/org/hibernate/validator/group/package.html
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/META-
  INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-
  jar/org/hibernate/validator/internal/cfg/context/package.html
*/

* Hibernate Validator, declare and validate application constraints
*
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*/

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*/

Found in path(s):
* /opt/cola/permits/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
No license file was found, but licenses were detected in source scan.

/*
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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/1111263952_1606891603.71/0/hibernate-validator-5-3-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo$

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* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/MockMultipartFile.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockMultipartActionRequest.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/MockMultipartHttpServletRequest.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockMultipartHttpServletRequest.java
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  jar/org/springframework/mock/web/portlet/MockResourceResponse.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockPortletPreferences.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockBaseURL.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockResourceURL.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/MockServletConfig.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockMimeResponse.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockClientDataRequest.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockResourceRequest.java
* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockActionResponse.java

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* /opt/cola/permits/1140698958_1614871697.03/0/spring-test-3-2-3-release-sources-2-
jar/org/springframework/test/annotation/SystemProfileValueSource.java

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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

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jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4.2.1-release-sources-2.jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4.2.1-release-sources-2.jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4.2.1-release-sources-2.jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4.2.1-release-sources-2.jar/org/springframework/cache/guava/GuavaCache.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4.2.1-release-sources-2.jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4.2.1-release-sources-2.jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java

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* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
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# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plain java c c++ pl cc h
#

# TEXT TYPES

text/html
htm HTML HTM

text/plain TXT TEXT java c c++ pl cc h
image/gif GIF
image/jpeg jpg jpeg JPG
image/tiff tiff TIFF:
application/postscript ai eps ps
application/rtf rtf
application/x-tex tex
application/x-texinfo texinfo texi
application/x-troff tr roff
audio/basic au
audio/midi midi
audio/x-aiff aiff
audio/x-aifc aifc
audio/x-mpeg mpeg mpg
audio/x-wav wav
video/mpeg mpg mpe
video/quicktime mov
video/x-msvideo avi

# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTML/docs/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#

# TEXT TYPES

text/x-speech talk

text/css css

text/csv csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap

# X-Windows pixelmap (8-bit color)
image/x-xpixmap

# Portable Network Graphics
image/x-png

# Image Exchange Format (RFC 1314)
image/ief

# JPEG
image/jpeg jpeg jpg jpe

# RGB
image/rgb

# Group III Fax (RFC 1494)
image/g3faxg3f

# X Windowdump format
image/x-xwindowdump

# Macintosh PICT format
image/x-pict

# PPM (UNIX PPM package)
image/x-portable-pixmapppm

# PGM (UNIX PPM package)
image/x-portable-graymappgm

# PBM (UNIX PPM package)
image/x-portable-bittampbm

# PNM (UNIX PPM package)
image/x-portable-anymappnm

# Microsoft Windows bitmap
image/x-ms-bmp

# CMU raster
image/x-cmu-rasterras

# Kodak Photo-CD
image/x-photo-cdpd

# Computer Graphics Metafile
image/cgm

# CALS Type 1 or 2
image/x-calsmil cal

# Fractal Image Format (Iterated Systems)
image/fif

# QuickSilver active image (Micrografx)
image/x-mgx-dsf

# CMX vector image (Corel)
image/x-cmx

# Wavelet-compressed (Summus)
image/wavelet

# AutoCad Drawing (SoftSource)
image/vnd.dwgdwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svsvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic"""" audio - 8-bit u-law PCM"
audio/basic snd
# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav wav
# MPEG audio
audio/x-mpegmpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midi mmid
# Koan music data (SSeyo)
application/vnd.koan skp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideoavi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk

# TEXT-RELATED

# PostScript
application/postscript
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif
# Troff document
application/x-troff
# Troff document with MAN macros
application/x-troff-man
# Troff document with ME macros
application/x-troff-me
# Troff document with MS macros
application/x-troff-ms
# LaTeX document
application/x-latex
# Tex/LateX document
application/x-tex
# GNU TexInfo document
application/x-texinfo
# TeX dvi format
application/x-dvi
# MS word document
application/msword
# Office Document Architecture
application/oda
# Envoy Document
application/envoy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
# 4.3BSD tar format
application/x-tar
# POSIX tar format
application/x-ustar

# Old CPIO format
application/x-cpio

# POSIX CPIO format
application/x-cpio

# UNIX sh shell archive
application/x-shar

# DOS/PC - Pkzipped archive
application/zip

# Macintosh Binhexed archive
application/mac-binhex40

# Macintosh Stuffit Archive
application/x-stuffit

# Fractal Image Format
application/fractals

# "Binary UUencoded"
application/octet-stream

# PC executable
application/octet-stream

# "WAIS ""sources"
application/x-wais-sources

# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript

# UNIX bourne shell program
application/x-sh

# UNIX c-shell program
application/x-csh

# Perl program
application/x-perl

# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash

# mBED multimedia data (mBED)
application/mbedlet

# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION
# OPEN SOURCE DOCUMENTS

- **PowerPoint presentation (Microsoft)**
  application/mspowerpointppz

- **ASAP WordPower (Software Publishing Corp.)**
  application/x-asapasp

- **Astound Web Player multimedia data (GoldDisk)**
  application/astoundasn

# SPECIAL EMBEDDED OBJECT

- **OLE script e.g. Visual Basic (Ncompass)**
  application/x-olescriptaxs

- **OLE Object (Microsoft/NCompass)**
  application/x-oleobjectodsd

- **OpenScape OLE/OCX objects (Business@Web)**
  x-form/x-openscapeopp

- **Visual Basic objects (Amara)**
  application/x-webbasicwba

- **Specialized data entry forms (Alpha Software)**
  application/x-alpha-formfrm

- **client-server objects (Wayfarer Communications)**
  x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

- **Undefined binary data (often executable progs)**
  application/octet-stream exe com

- **Pointcast news data (Pointcast)**
  application/x-pcnpcn

- **Excel spreadsheet (Microsoft)**
  application/vnd.ms-excelxls

- **PowerPoint (Microsoft)**
  application/vnd.ms-powerpointppt

- **Microsoft Project (Microsoft)**
  application/vnd.ms-projectmppp

- **SourceView document (Dataware Electronics)**
  application/vnd.svdsvd

- **Net Install - software install (20/20 Software)**
  application/x-net-installins

- **Carbon Copy - remote control/access (Microcom)**
  application/ccvccv

- **Spreadsheets (Visual Components)**
  workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

- **VRML data file**
  x-world/x-vrmlwrl vrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrw
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrvwr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5dv5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwf/dwf

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* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
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* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
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* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
* /opt/cola/permits/1152323284_1618219303.21/0/spring-context-support-4-2-1-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
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$Id: LICENSE 646333 2008-04-09 13:27:37Z chirino $

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*/
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1.1222 openjpeg 2.3.1-3.el7_7

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $(<
%.o: $(srcdir)/%.c

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$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.S$(STATIC_O): $(srcdir)/%.cpp
@$(SHELL) -ec '$(GEN_DEPS.c) $<\n| sed "s/\(\$*\)/\1.o \$@ : /g\" > \$@;\n[ -s \$@ ]|| rm -f \$@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.cc) $<\n| sed "s/\(\$*\)/\1.o \$@ : /g\" > \$@;\n[ -s \$@ ]|| rm -f \$@’

### Versioned libraries rules

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

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

## End FreeBSD-specific setup

1.1224 management-core 2.1.6

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DC_UNSET = -1, DC_NONE = 0, DC_INTEGRAL = 1, DC_CONFIDENTIAL = 2, DC_FORBIDDEN = 3; *
2=DC_CONFIDENTIAL if (c < 0 || c > DC_CONFIDENTIAL) throw new
IllegalArgumentException("Constraint out of range"); *         2=DC_CONFIDENTIAL ? (dataConstraint ==
DC_UNSET ? "DC_UNSET}" : (_dataConstraint == DC_NONE ? "NONE}" : (_dataConstraint ==
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* /opt/cola/permits/1152322828_1618219158.83/0/spring-security-acl-3-0-7-release-sources-2-jar/org/springframework/security/acls/AclEntryVoter.java
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* /opt/cola/permits/1152322828_1618219158.83/0/spring-security-acl-3-0-7-release-sources-2-jar/org/springframework/security/acls/model/ConsoleAuditLogger.java
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* /opt/cola/permits/1152322828_1618219158.83/0/spring-security-acl-3-0-7-release-sources-2-jar/org/springframework/security/acls/afterinvocation/CollectionFilterer.java
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1.1233 tcp-wrappers 7.6-77.el7

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1.1235 dmidecode 3.0 5.el7

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsiz bsiz 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):

-------------------
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    [fsiz bsize       cpg]
an  4096  6144   2049      4.2BSD      0    0    0
cc  4096 20479  16384     unused      0    0    0
dd  0    16064  16065     unused      0    0    0

BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused  5 4.1BSD  9 4.4LFS  d boot
1 swap  6 Eighth Edition a unknown  e ADOS
2 Version 6 7 4.2BSD  b HPFS  f HFS
3 Version 7 8 MS-DOS  c ISO-9660  10 AdvFS
4 System V

BSD disklabel command (m for help):

1.1240 dhcp 4.2.5 68.el7.centos
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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$/isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl: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:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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 piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

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

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1.1241 pygobject 2.28.6-11.el7

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

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

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

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

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

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

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

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

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

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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
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1.1254 pixman 0.34.0 1.el7
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jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java
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*/
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
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audio/x-aifc aiff
audio/x-mpeg mpeg mpg
audio/x-wav wav
video/mpeg mpeg mpg
video/quicktimeqt mov
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#
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text/x-speech talk
text/css css
text/csv csv

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# X-Windows bitmap (b/w)
image/x-xbitmap xbm
# X-Windows pixmap (8-bit color)
image/x-xpixmap xpm
# Portable Network Graphics
image/png png
# Scalable Vector Graphics
image/svg+xml svg
# Image Exchange Format (RFC 1314)
image/xiefief
# RGB
image/rgb rgb
# Group III Fax (RFC 1494)
image/g3fax g3f
# X Windowdump format
image/x-xwindowdump xwd
# Macintosh PICT format
image/x-pict pict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anymappnm
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpcd
# Computer Graphics Metafile
image/cgmcgm
# CALS Type 1 or 2
image/x-calsmil cal
# Fractal Image Format (Iterated Systems)
image/fiffif
# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf
# CMX vector image (Corel)
image/x-cmxcmx
# Wavelet-compressed (Summus)
image/waveletwi
# AutoCad Drawing (SoftSource)
image/vnd.dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic"""" audio - 8-bit u-law PCM"
audio/basic snd
# Macintosh audio format (AIpple)
audio/x-aiffaif aiff aifc
# Microsoft audio
audio/x-wavwav
# MPEG audio
audio/x-mpegmpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudiora ram
# MIDI music data
# VIDEO TYPES

- # MPEG video
  - video/mpeg
  - mpg
  - mpe
- # MPEG-2 video
  - video/mpeg-2
  - mpv2
  - mp2v
- # Macintosh Quicktime
  - video/quicktime
  - qt
  - mov
- # Microsoft video
  - video/x-msvideo
  - avi
- # SGI Movie format
  - video/x-sgi-moviemovie
- # VDOlive streaming video (VDOnet)
  - video/vdo
- # Vivo streaming video (Vivo software)
  - video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

- # Proxy autoconfiguration (Netscape browsers)
  - application/x-ns-proxy-autoconfig
  - pac
- # Netscape Cooltalk chat data (Netscape)
  - x-conference/x-cooltalk
  - ice

# TEXT-RELATED

- # PostScript
  - application/postscript
  - ai
  - eps
  - ps
- # Microsoft Rich Text Format
  - application/rtf
- # Adobe Acrobat PDF
  - application/pdf
- # Maker Interchange Format (FrameMaker)
  - application/vnd.mif
  - mif
- # Troff document
  - application/x-troff
  - tr
  - roff
- # Troff document with MAN macros
  - application/x-troff-manman
- # Troff document with ME macros
  - application/x-troff-meme
- # Troff document with MS macros
  - application/x-troff-msms
# LaTeX document
application/x-latexlatex

# TeX/LateX document
application/x-tex

# GNU TexInfo document
application/x-texinfo texi

# TeX dvi format
application/x-dvidvi

# MS word document
application/msword doc DOC

# Office Document Architecture
application/oda oda

# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
gtar

# 4.3BSD tar format
application/x-tartar
tar

# POSIX tar format
application/x-ustar
ustar

# Old CPIO format
application/x-bcpio
bcpio

# POSIX CPIO format
application/x-cpio
cpio

# UNIX sh shell archive
application/x-shar
shar

# DOS/PC - Pkzipped archive
application/zip
zip

# Macintosh Binhexed archive
application/mac-binhex40
hqx

# Macintosh Stuffit Archive
application/x-stuffit
sit sea

# Fractal Image Format
application/fractalsfif

# "Binary UUencoded"
application/octet-stream
bin uu

# PC executable
application/octet-stream
exe

# "WAIS ""sources"
application/x-wais-sources src wsrc

# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS
# Javascript program
text/javascript	
text/js
mocha

# UNIX bourne shell program
text/x-shsh

# UNIX c-shell program
text/x-cshcsh

# Perl program
text/x-perlpl

# Tcl (Tool Control Language) program
text/x-tcltcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
text/html/futuresplash

# mBED multimedia data (mBED)
text/html/mbedletmbed

# PowerMedia multimedia (RadMedia)
text/html/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
text/html/mspowerpoint

# ASAP WordPower (Software Publishing Corp.)
text/html/x-asapasp

# Astound Web Player multimedia data (GoldDisk)
text/html/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
text/html/x-olescriptaxs

# OLE Object (Microsoft/NCompass)
text/html/x-oleobjectods

# OpenScape OLE/OCX objects (Business@Web)
text/html/x-openscapeopp

# Visual Basic objects (Amara)
text/html/x-webbasicwba

# Specialized data entry forms (Alpha Software)
text/html/x-alpha-formfrm

# client-server objects (Wayfarer Communications)
text/html/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
text/html/octet-streamexe com
# Pointcast news data (Pointcast)
application/x-pcn

# Excel spreadsheet (Microsoft)
application/vnd.ms-excel

# PowerPoint (Microsoft)
application/vnd.ms-powerpoint

# Microsoft Project (Microsoft)
application/vnd.ms-project

# SourceView document (Dataware Electronics)
application/vnd.svd

# Net Install - software install (20/20 Software)
application/vnd.net-install

# Carbon Copy - remote control/access (Microcom)
application/cc

# Spreadsheets (Visual Components)
workbook/vnd.formulaone

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrml

# WIRL - VRML data (VREAM)
x-world/x-vream

# Play3D 3d scene data (Play3D)
application/vnd.play3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svrs

# WebActive 3d data (Plastic Thought)
x-world/x-wvr

# QuickDraw3D scene data (Apple)
x-world/x-3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica

# Computational meshes for numerical simulations
x-model/x-mesh

# Vis5D 5-dimensional data
application/vnd.vis5d

# IGES models -- CAD/CAM (CGM) data
application/vnd.iges

# Autocad WHIP vector drawings
drawing/vnd.dwf

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  jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java

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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
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  jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1-
  jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/BeanFactoryJCacheOperationSourceAdvisor.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/JCacheInterceptor.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/CachePutInterceptor.java
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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/scheduling/quartz/QuartzJobBean.java
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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/cache/jcache/interceptor/KeyGeneratorAdapter.java
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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/mail/javamail/InternetAddressEditor.java
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* /opt/cola/permits/1136006659_1613652240.35/0/spring-context-support-5-2-9-release-sources-1.jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
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1.1256 quartz-oracle 1.8.5
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_web_services_client_1_4.xsd
- jsp_2_3.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
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/TransactionAwareDataSourceConnectionProvider.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/LocalEntityManagerFactoryBean.java

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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/OpenJpaDialect.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/TransactionAwareDataSourceConnectionProvider.java
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 */

/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * <code>createEntityManager</code> call (may be <code>null</code>)
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
 */

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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/JpaCallback.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jdo/support/OpenEntityManagerInViewFilter.java
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1.1269 libxmu 1.1.2-2.el7

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* /opt/cola/permits/1111264942_1606892467.75/0/neohtml-1-9-11-sources-1-jar/org/cyberneko/html/HTMLElements.java
* /opt/cola/permits/1111264942_1606892467.75/0/neohtml-1-9-11-sources-1-jar/sample/HTMLSAXParser.java
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jar/org/cyberneko/html/HTMLEntities.java
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  jar/org/cyberneko/html/filters/Purifier.java
* /opt/cola/permits/1111264942_1606892467.75/0/nekohtml-1-9-11-sources-1-
  jar/org/cyberneko/html/filters/NamespaceBinder.java
* /opt/cola/permits/1111264942_1606892467.75/0/nekohtml-1-9-11-sources-1-
  jar/org/cyberneko/html/HTMLAugmentations.java

1.1277 readline 6.2

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c End:
1.1278 xml-apis 2.0.2

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 * Base class for deriving an XML filter.
 *
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 *
 * This class is designed to sit between an XMLReader and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java

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 * Basic interface for SAX error handlers.
 *
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 * </blockquote>
 */
If a SAX application needs to implement customized error handling, it must implement this interface and then register an instance with the XML reader using the method. The parser will then report all errors and warnings through this interface.

WARNING: If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.

For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of errors and warnings. Note, however, that there is no requirement that the parser continue to provide useful information after a call to the method (in other words, a SAX driver class could catch an exception and report a fatalError).

Since SAX 1.0

Interface for a list of XML attributes.

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This interface allows access to a list of attributes in three different ways:

- by attribute index;
- by Namespace-qualified name; or
- by qualified (prefixed) name.

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/**
 * Interface for a list of XML attributes.
 *
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 *
 * This interface allows access to a list of attributes in three different ways:
 * - by attribute index;
 * - by Namespace-qualified name; or
 * - by qualified (prefixed) name.
 */
The list will not contain attributes that were declared #IMPLIED but not specified in the start tag. It will also not contain attributes used as Namespace declarations (xmlns*) unless the <code>http://xml.org/sax/features/namespace-prefixes</code> feature is set to <var>true</var> (it is <var>false</var> by default). If the namespace-prefixes feature (see above) is <var>false</var>, access by qualified name may not be available; if the <code>http://xml.org/sax/features/namespaces</code> feature is <var>false</var>, access by Namespace-qualified names may not be available.

This interface replaces the now-deprecated SAX1 {@link org.xml.sax.AttributeList AttributeList} interface, which does not contain Namespace support. In addition to Namespace support, it adds the <var>getAttributeIndex</var> methods (below).

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

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

Default implementation for AttributeList.

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AttributeList implements the deprecated SAX1 {@link org.xml.sax.AttributeList AttributeList} interface, and has been replaced by the new SAX2 {@link org.xml.sax.helpers.AttributesImpl AttributesImpl} interface.

This class provides a convenience implementation of the SAX
* implementation is useful both for SAX parser writers, who can use
* it to provide attributes to the application, and for SAX application
* writers, who can use it to create a persistent copy of an element's
* attribute specifications:</p>

*<pre>
* private AttributeList myatts;
* 
* public void startElement (String name, AttributeList atts)
* {
*     // create a persistent copy of the attribute list
*     // for use outside this method
*     myatts = new AttributeListImpl(atts);
*     [...] 
* }
* </pre>

* Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>

* @deprecated This class implements a deprecated interface,
* @link org.xml.sax.AttributeList AttributeList@; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>

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

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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/**
* Interface for an XML filter.
*
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<p>An XML filter is like an XML reader, except that it obtains its events from another XML reader rather than a primary source like an XML document or database. Filters can modify a stream of events as they pass on to the final application.</p>

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

<p>@since SAX 2.0  
@since SAX 2.0
@since SAX 2.0
@since SAX 2.0
@since SAX 2.0</p>

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

<p>SAX parsers are not required to supply a locator, but they are</p>
* very strongly encouraged to do so. If the parser supplies a
* locator, it must do so before reporting any other document events.
* If no locator has been set by the time the application receives
* the {@link org.xml.sax.ContentHandler#startDocument startDocument} event, the application should assume that a locator is not
* available.</p>
*
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.ContentHandler#setDocumentLocator
*/

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/**
 * Receive notification of basic DTD-related events.
 *
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 *
 * Note that this interface includes only those DTD events that
 * the XML recommendation requires processors to report:
 * notation and unparsed entity declarations.</p>
 *
 * The SAX parser may report these events in any order, regardless
 * of the order in which the notations and unparsed entities were
 * declared; however, all DTD events must be reported after the
 * document handler's startDocument event, and before the first
 * startElement event.</p>
 *
 * It is up to the application to store the information for
 * future use (perhaps in a hash table or object tree).
 * If the application encounters attributes of type "NOTATION",
 * "ENTITY", or "ENTITIES", it can use the information that it
 * obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>
* 
* @since SAX 1.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDTDHandler
* @see org.xml.sax.HandlerBase
*/

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/**
 * Default base class for handlers.
 * *
 * <blockquote> 
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em> 
 * </blockquote>
 * *
 * <p>This class implements the default behaviour for four SAX1
 * interfaces: EntityResolver, DTDHandler, DocumentHandler,
 * andErrorHandler. It is now obsolete, but is included in SAX2 to
 * support legacy SAX1 applications. SAX2 applications should use
 * the {@link org.xml.sax.helpers.DefaultHandler DefaultHandler} 
 * class instead.</p>
 * *
 * <p>Application writers can extend this class when they need to 
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.</p>
 * *
 * <p>Note that the use of this class is optional.</p>
* @deprecated This class works with the deprecated
*     {@link org.xml.sax.DocumentHandler DocumentHandler}
*     interface. It has been replaced by the SAX2
*     {@link org.xml.sax.helpers.DefaultHandler DefaultHandler}
*     class.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/DOMEntityResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/LSLoadEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/LSProgressEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/ParseErrorEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMWriterFilter.java

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

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*/
/**
* <strong>DOM Level 3 WD Experimental:</strong>
* The DOM Level 3 specification is at the stage
* of Working Draft, which represents work in
* progress and thus may be updated, replaced,
* or obsoleted by other documents at any time.<strong> </strong><p>
* <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
* expressions with no specialized extension functions or variables. It is
* expected that the <code>XPathEvaluator</code> interface will be
* implemented on the same object which implements the <code>Document</code>
* interface in an implementation which supports the XPath DOM module.
* <code>XPathEvaluator</code> implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
* XPathExpression should be named with more-XPath-specific names because
* the interface will often be implemented by the same object which
* implements document.No change.The point of interfaces is to localize the
* implementing namespace. This would make the method names unnecessarily
* long and complex even though there are no conflicts in the interface
* itself. The new core method getInterface is designed for discovering
* interfaces of additional modules that may not be directly implemented on
* the objects to which they are attached. This could be used to implement
* XPath on a separate object. The user only refers to the separate
* interfaces and not the proprietary aggregate implementation. Should entity
* refs be supported so that queries can be made on them? No change. We will
* not do this now. They are not part of the XPath data model. Note that
* they may be present in the hierarchy of returned nodes, but may not
* directly be requested or returned in the node set. What does createResult
* create when one wants to reuse the XPath? It is not useful. Removed method.
* Should ordering be a separate flag, or a type of result that can be
* requested. As a type of result, it can be better optimized in
* implementations. It makes sense as a type of result. Changed. Removed
* method. Implementing XPathEvaluator on Document can be a problem due to
* conflicts in the names of the methods. The working group finds no better
* solution. GetInterface in Level 3 permits the object to be implemented
* separately. We should be committed to this. We will leave this issue open
* to see if we get more feedback on it. How does this interface adapt to
* XPath 2.0 and other query languages. No change. This interface is not
* intended to adapt to XPath 2.0 or other languages. The models of these
* are likely to be incompatible enough to require new APIs. For alternate
* implementations that can use this API, it can be obtained from different
* sources. Support for custom variables and functions would be very useful.
* No change. It is possible for an implementation to supply alternative
* sources of an XPathEvaluator that can be customized with a custom
* variable and function context. We do not specify how this is
* accomplished. It is too complex to address in this version of the XPath
* DOM.
* <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object
Model (DOM) Level 3 XPath Specification</a>.</p>

/\*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
* Interface for an element's attribute specifications.
* 
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* 
* <p>This is the original SAX1 interface for reporting an element's
* attributes. Unlike the new { @link org.xml.sax.Attributes Attributes]
* interface, it does not support Namespace-related information.</p>
* 
* <p>When an attribute list is supplied as part of a
* { @link org.xml.sax.DocumentHandler#startElement startElement}
* event, the list will return valid results only during the
* scope of the event; once the event handler returns control
to the parser, the attribute list is invalid. To save a
persistent copy of the attribute list, use the SAX1
helper class.</p>

An attribute list includes only attributes that have been
specified or defaulted: #IMPLIED attributes will not be included.</p>

There are two ways for the SAX application to obtain information
from the AttributeList. First, it can iterate through the entire
list:</p>

```java
public void startElement (String name, AttributeList atts) {
  for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    [...]
  }
}
</pre>

(Note that the result of getLength() will be zero if there
are no attributes.)</p>

As an alternative, the application can request the value or
type of specific attributes:</p>

```java
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
</pre>

@deprecated This interface has been replaced by the SAX2
interface, which includes Namespace support.
@since SAX 1.0
@author David Megginson,
  sax@megginson.com
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/
/**
 * Receive notification of general document events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This was the main event-handling interface for SAX1; in
 * SAX2, it has been replaced by {@link org.xml.sax.ContentHandler
 * ContentHandler}, which provides Namespace support and reporting
 * of skipped entities. This interface is included in SAX2 only
 * to support legacy SAX1 applications.
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.
 *
 * Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler. The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.
 *
 * @deprecated This interface has been replaced by the SAX2
 *             {@link org.xml.sax.ContentHandler ContentHandler}
 *             interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#setDocumentHandler
 * @see org.xml.sax.Locator
 * @see org.xml.sax.HandlerBase
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:</p>
 *
 * <pre>
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 * </pre>
 *
 * <p><strong>Note to Distributions bundled with parsers:</strong> You should modify the implementation of the no-arguments
 * <em>createXMLReader</em> to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to <code>org.xml.sax.driver</code> so
 * those configuration mechanisms would see it.</p>
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/XMLReaderFactory.java
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// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
This class encapsulates the logic of Namespace processing:
it tracks the declarations currently in force for each context
and automatically processes qualified XML 1.0 names into their
Namespace parts; it can also be used in reverse for generating
XML 1.0 from Namespaces.

Namespace support objects are reusable, but the reset method
must be invoked between each session.

Here is a simple session:

String parts[] = new String[3];
NamespaceSupport support = new NamespaceSupport();

support.pushContext();
support.declarePrefix("", "http://www.w3.org/1999/xhtml");
support.declarePrefix("dc", "http://www.purl.org/dc#");

String parts[] = support.processName("p", parts, false);
System.out.println("Namespace URI: " + parts[0]);
System.out.println("Local name: " + parts[1]);
System.out.println("Raw name: " + parts[2]);

String parts[] = support.processName("dc:title", parts, false);
System.out.println("Namespace URI: " + parts[0]);
System.out.println("Local name: " + parts[1]);
System.out.println("Raw name: " + parts[2]);

support.popContext();

Note that this class is optimized for the use case where most
elements do not contain Namespace declarations: if the same
prefix/URI mapping is repeated for each context (for example), this
class will be somewhat less efficient.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0

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

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/DefaultHandler.java
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/**
 * Encapsulate an XML parse error or warning.
 *
This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

This exception will include information for locating the error in the original XML document. Note that although the application will receive a SAXParseException as the argument to the handlers in the [link org.xml.sax.ErrorHandler ErrorHandler] interface, the application is not actually required to throw the exception; instead, it can simply read the information in it and take a different action.

Since this exception is a subclass of [link org.xml.sax.SAXException SAXException], it inherits the ability to wrap another exception.

@since SAX 1.0
@version 2.0
@see org.xml.sax.SAXException
@see org.xml.sax.Locator
@see org.xml.sax.ErrorHandler

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventListener.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/NodeFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/NodeIterator.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Range.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/RangeList.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/TreeWalker.java
If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the method.

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

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

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

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

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

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

Since SAX 1.0

Author David Megginson,

mailto:sax@megginson.com
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/

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

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTitleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMILFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLModElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLBaseElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLPreElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLMetaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLTableSectionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLTableCaptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLIsIndexElement.java
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/**
* Provide an optional convenience implementation of Locator.

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* Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
* </blockquote>

* This class is available mainly for application writers, who
* can use it to make a persistent snapshot of a locator at any
* point during a document parse:<p>
*<pre>
* Locator locator;
* Locator startloc;
*<p>
* public void setLocator (Locator locator)
* {<p>
*     // note the locator
*     this.locator = locator;
* }<p>
* public void startDocument ()
* {<p>
*     // save the location of the start of the document
*     // for future use.
*     Locator startloc = new LocatorImpl(locator);
* }<p>
* </pre>
* Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>
*
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

Found in path(s):
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java
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*
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* individuals on behalf of the Apache Software Foundation and was
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/**
 * Interface for reading an XML document using callbacks.
 */

* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.<br></blockquote>

* <p><strong>Note:</strong> despite its name, this interface does
* not extend the standard Java [@link java.io.Reader Reader] interface, because reading XML is a fundamentally different activity
* than reading character data.</p>

* XMLReader is the interface that an XML parser's SAX2 driver must
* implement. This interface allows an application to set and
* query features and properties in the parser, to register
* event handlers for document processing, and to initiate
* a document parse.</p>

* All SAX interfaces are assumed to be synchronous: the
* [@link #parse parse] methods must not return until parsing
* is complete, and readers must wait for an event-handler callback
* to return before reporting the next event.</p>

* This interface replaces the (now deprecated) SAX 1.0 [@link
* org.xml.sax.Parser Parser] interface. The XMLReader interface
* contains two important enhancements over the old Parser
* interface:</p>

* 

* <ol>
  * <li>it adds a standard way to query and set features and
    * properties; and</li>
  * <li>it adds Namespace support, which is required for many
    * higher-level XML standards.</li>
* </ol>

* 

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

* 

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

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

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/**
* A single input source for an XML entity.
*
* <blockquote>
  * <em>This module, both source code and documentation, is in the
    * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</p>
*
*
* <p>There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method.</p>
*
* <p>The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>
*

* <p>An InputSource object belongs to the application: the SAX parser
* shall never modify it in any way (it may modify a copy if
* necessary).</p>
*

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

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

Found in path(s):
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html
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// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 * </em>
 * </blockquote>
 *
 * <p>This class wraps a SAX1 [<@link org.xml.sax.Parser Parser]>
 * and makes it act as a SAX2 [<@link org.xml.sax.XMLReader XMLReader]>,
 * with feature, property, and Namespace support. Note
 * that it is not possible to report [<@link org.xml.sax.ContentHandler#skippedEntity
 * skippedEntity] events, since SAX1 does not make that information available.</p>
 *
 * <p>This adapter does not test for duplicate Namespace-qualified
 * attribute names.</p>
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * <p>This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
 * <p>This wrapper class is used only when Namespace support
 * is disabled -- it provides pretty much a direct mapping
 * from SAX1 to SAX2, except that names and types are
 * interned whenever requested.</p>
 */

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

@since SAX 2.0
@version 2.0.1 (sax2r2)
*/

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

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Create a new instance of a class by name.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.<em></em>
 * </blockquote>
 *
 * This class contains a static method for creating an instance of a class from an explicit class name. It tries to use the thread's context ClassLoader if possible and falls back to using Class.forName(String). It also takes into account JDK 1.24+'s AccessController mechanism for performing its actions. </p>
 *
 * This code is designed to run on JDK version 1.1 and later and compile on versions of Java 2 and later.</p>
 *
 * @author Edwin Goei, David Brownell, Neil Graham
 * @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
 */

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

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/**
 * Encapsulate a general SAX error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * <p>This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it.</p>
 * <p>If the application needs to pass through other types of
 * exceptions, it must wrap those exceptions in a SAXException
 * or an exception derived from a SAXException.</p>
 * <p>If the parser or application needs to include information about a
 * specific location in an XML document, it should use the
 * {@link org.xml.sax.SAXParseException} subclass.</p>
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXParseException
 */

Found in path(s):
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unrecognized identifier.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * <p>An XMLReader will throw this exception when it finds an
 * unrecognized feature or property identifier; SAX applications and
 * extensions may use this class for other, similar purposes.</p>
 * @since SAX 2.0
 * @author David Megginson,
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java
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 */
/**
 * Create a new <code>DOMBuilder</code>. The newly constructed parser may
 * then be configured by means of its <code>setFeature</code> method,
 * and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *              <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
 *              <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *              <code>DOMBuilder</code> that is created will operate in synchronous
 *              mode, if it's <code>MODEASYNCHRONOUS</code> then the
 *              <code>DOMBuilder</code> that is created will operate in
 *              asynchronous mode.
 * @param schemaType  An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>DOMBuilder</code>. Note that no lexical
 * checking is done on the absolute URI. In order to create a
 * <code>DOMBuilder</code> for any kind of schema types (i.e. the
DOMBuilder will be free to use any schema found, use the value
<code>null</code>. For W3C XML Schema, applications must use the
value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD
, applications must use the value
<code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
are outside the scope of the W3C and therefore should recommend an
absolute URI in order to use this method.

@return The newly created <code>DOMBuilder</code> object. This
<code>DOMBuilder</code> is either synchronous or asynchronous
depending on the value of the <code>mode</code> argument. By
default, the newly created <code>DOMBuilder</code> does not contain
a <code>DOMErrorHandler</code>, i.e. the value of the
<code>errorHandler</code> is <code>null</code>. However,
implementations may provide a default error handler at creation
time. In that case, the initial value of the
<code>errorHandler</code> attribute on the new created
<code>DOMBuilder</code> contains a reference to the default error
handler.

@exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Basic interface for SAX (Simple API for XML) parsers.

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

This was the main event supplier interface for SAX1; it has
been replaced in SAX2 by XMLReader, which includes Namespace support and sophisticated configurability
and extensibility.

All SAX1 parsers must implement this basic interface: it allows
applications to register handlers for different types of events
and to initiate a parse from a URI, or a character stream.

All SAX1 parsers must also implement a zero-argument constructor
(though other constructors are also allowed).
SAX1 parsers are reusable but not re-entrant: the application
may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse. </p>

@deprecated This interface has been replaced by the SAX2
interface, which includes Namespace support.
@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax/DTDHandler
@see org.xml.sax.DocumentHandler
@see org.xml.sax.ErrorHandler
@see org.xml.sax.HandlerBase
@see org.xml.sax.InputSource

/**
 * SAX2 extension handler for DTD declaration events.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.</em></p>
 * 
 */

This is an optional extension handler for SAX2 to provide
* information about DTD declarations in an XML document. XML
* readers are not required to support this handler, and this
* handler is not included in the core SAX2 distribution.</p>

If you are using the declaration handler together with a lexical
* handler, all of the events will occur between the
* { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD } and the
* { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD } events.</p>

To set the DeclHandler for an XML reader, use the
* {@link org.xml.sax.XMLReader#setProperty setProperty} method
* with the propertyId "http://xml.org/sax/properties/declaration-handler".
* If the reader does not support declaration events, it will throw a
* {@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
* or a
* {@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException}
* when you attempt to register the handler.</p>
*
* @since 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader
*/

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

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/**
* Java-specific class for dynamically loading SAX parsers.
*
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>Note: This class is designed to work with the now-deprecated
* SAX1 {@link org.xml.sax.Parser Parser} class. SAX2 applications should use
* {@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory} instead.</p>
* 
* ParserFactory is not part of the platform-independent definition
* of SAX; it is an additional convenience class designed
* specifically for Java XML application writers. SAX applications
* can use the static methods in this class to allocate a SAX parser
* dynamically at run-time based either on the value of the
* `org.xml.sax.parser' system property or on a string containing the class
* name.</p>
*
* Note that the application still requires an XML parser that
* implements SAX1.</p>
*
* @deprecated This class works with the deprecated
*  { @link org.xml.sax.Parser Parser}
*  interface.
* @since SAX 1.0
* @author David Megginson
* @version 2.0r2pre3
*/

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

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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 * *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * *
 * This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader }
 * and makes it act as a SAX1 { @link org.xml.sax.Parser Parser }. The XMLReader
 * must support a true value for the
 * http://xml.org/sax/features/namespace-prefixes property or parsing will fail
 * with a { @link org.xml.sax.SAXException SAXException }; if the XMLReader
 * supports a false value for the http://xml.org/sax/features/namespaces
 * property, that will also be used to improve efficiency.</p>
 * *
 * @since SAX 2.0
 * @author David Megginson,
  * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser
 * @see org.xml.sax.XMLReader
 */
// NO WARRANTY! This class is in the public domain.
/**
 * Receive notification of the logical content of a document.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
 * </blockquote>
 *
 * This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the {@link org.xml.sax.XMLReader#setContentHandler
 * setContentTypeHandler} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * This interface is similar to the now-deprecated SAX 1.0
 * DocumentHandler interface, but it adds support for Namespaces
 * and for reporting skipped entities (in non-validating XML
 * processors).</p>
 *
 * Implementors should note that there is also a Java class
 * {@link java.net.ContentHandler ContentHandler} in the java.net
 * package; that means that it's probably a bad idea to do</p>
 *
 * import java.net.*;
 * import org.xml.sax.*;
 * </blockquote>
 *
 * In fact, "import ...*" is usually a sign of sloppy programming
 * anyway, so the user should consider this a feature rather than a
 * bug.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
// Public Domain: no warranty.
/*
* SAX2 extension handler for lexical events.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* This is an optional extension handler for SAX2 to provide
* lexical information about an XML document, such as comments
* and CDATA section boundaries; XML readers are not required to
* support this handler, and it is not part of the core SAX2
* distribution.</p>
*
* The events in the lexical handler apply to the entire document,
* not just to the document element, and all lexical handler events
* must appear between the content handler's startDocument and
* endDocument events.</p>
*
* To set the LexicalHandler for an XML reader, use the
* {$@link org.xml.sax.XMLReader#setProperty setProperty} method
* with the propertyId "http://xml.org/sax/properties/lexical-handler".
* If the reader does not support lexical events, it will throw a
* {$@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
* or a
* {$@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException}
* when you attempt to register the handler.</p>
*
* @since 1.0
* @author David Megginson,
* "mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.SAXNotRecognizedException
* @see org.xml.sax.SAXNotSupportedException
*/
1.1279 ctags 5.8 13.el7
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1.1288 lockfile 0.12.2

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1.1289 jersey-container-servlet-core 2.27
1.1290 lsscsi 0.27 6.el7

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1.1291 javasimon-javaee 4.1.0

1.1292 keyutils 1.5.8 3.el7
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1.1294 groovy-jmx 3.0.7

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1.1295 json-java 1.0

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1.1297 zlib 1.2.3
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1.1298 jersey-common 2.26

1.1299 wpa-supplicant 2.6 9.el7
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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
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License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
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If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
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It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

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

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 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!

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

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

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

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this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
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(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
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copyright law: that is to say, a work containing the Library or a
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straightforwardly into another language. (Hereinafter, translation is
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"Source code" for a work means the preferred form of the work for
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Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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  jar/jersey/repackaged/com/google/common/io/BaseEncoding.java

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/AbstractHasher.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Crc32cHashFunction.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/MapMakerInternalMap.java

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/*
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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Clean up blobs, clobes and the local configuration.

BLOBS and CLOBS

This is necessary in those dialects that have long-lived temporary lob objects, which can cause memory leaks in certain contexts, where the lobs' underlying session / connection is long-lived as well. Specifically, Oracle and ojdbc have some trouble when streaming temporary lobs to UDTs:

1. The lob cannot have a call-scoped life time with UDTs
2. Freeing the lob after binding will cause an ORA-22275
3. Not freeing the lob after execution will cause an OutOfMemoryError

Local configuration

There exist some corner-cases regarding the SQLOutput
* API, used for UDT serialisation / deserialisation, which have no elegant
* solutions of obtaining a [@link Configuration] and thus a JDBC
* [@link Connection] object short of:
* <ul>
* <li>Making assumptions about the JDBC driver and using proprietary API,
* e.g. that of ojdbc</li>
* <li>Dealing with this problem globally by using such a local
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* @see <a href="http://stackoverflow.com/q/11439543/521799">http://stackoverflow.com/q/11439543/521799</a>
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*/
/**

* /* Create a "plain SQL" field.
* <p>
* A PlainSQLField is a field that can contain user-defined plain SQL,
* because sometimes it is easier to express things directly in SQL, for
* instance complex proprietary functions. There must not be any binding
* variables contained in the SQL.
* <p>
* Example:
* <p>
* <code><pre>
* String sql = "DECODE(MY_FIELD, 1, 100, 200)"
* </pre></code>
* <p>
* <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
* guarantee syntax integrity. You may also create the possibility of
* malicious SQL injection. Be sure to properly use bind variables and/or
* escape literals when concatenated into SQL clauses!
/**
 * Create a "plain SQL" field.
 * <p>
 * A PlainSQLField is a field that can contain user-defined plain SQL,
 * because sometimes it is easier to express things directly in SQL, for
 * instance complex proprietary functions. There must be as many binding
 * variables contained in the SQL, as passed in the bindings parameter
 * <p>
 * Example:
 * <p>
 * <code><pre>
 * String sql = "DECODE(MY_FIELD, ?, ?, ?);
 * Object[] bindings = new Object[] { 1, 100, 200 };</pre></code>
 * <p>
 * <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
 * guarantee syntax integrity. You may also create the possibility of
 * malicious SQL injection. Be sure to properly use bind variables and/or
 * escape literals when concatenated into SQL clauses!
 * <p>
 * @param sql The SQL
 * @param bindings The bindings for the field
 * @return A field wrapping the plain SQL
 * @see SQL
 * @see DSL#sql(String, Object...)
 */

} Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DSL.java
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*/
/**
* A very simple CSV parser released under a commercial-friendly license. This
* just implements splitting a single line into fields.
*
* @author Glen Smith
* @author Rainer Pruy
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/tools/csv/CSVParser.java
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/**
* A very simple CSV reader released under a commercial-friendly license.
*
* @author Glen Smith
*/

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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
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jar/org/jooq/impl/CreateIndexImpl.java
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/**
* The <code>org.jooq.tools.csv</code> package contains parts of OpenCSV.
* <p>
* jOOQ has no external dependencies. Nevertheless, some libraries that are
* compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
* OpenCSV website for more details about OpenCSV:
* <p>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/tools/csv/package-info.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WithAsStep18.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertValuesStep6.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeKeyStep19.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Asin.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/RevokeFinalStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultDiagnosticsListener.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Role.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectSeekStep10.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BetweenAndStep18.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectSeekStepN.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeMatchedSetStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MinusStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultVisitListenerProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DiagnosticsListenerProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/AbstractNamed.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DiagnosticsListenerProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Left.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Left.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectLimitPercentStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DropObjectFinalStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/CUBRIDDataType.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WindowRowsStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DerivedColumnList15.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WindowPartitionByStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Named.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Link.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectConnectByStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/InformationSchemaMetaProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ConstraintForeignKeyReferencesStep1.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/BlobBinding.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/SetSchema.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Row20.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DateAdd.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DAO.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Scope.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Record.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/InsertValuesStep21.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/Lpad.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/MergeFinalStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/InsertValuesStep18.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/SQLDataType.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Tools/StopWatch.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectStartWithStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/ExplainQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/DefaultMetaProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/RowN.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectForUpdateWaitStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Row5.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WithAsStep17.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BetweenAndStep3.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Operator.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/Radians.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Keyword.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/jdbc/MockExecuteContext.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/TransactionListenerProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Allow.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Impl/DefaultBindingSetStatementContext.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeKeyStep16.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WithAsStep3.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BetweenAndStep19.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WithAsStep11.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BindContext.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/ProviderEnabledConnection.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DivideByOnConditionStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/jdbc/MockStatement.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ArrayRecord.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/JSONFormat.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Record14.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/LoaderCSVOptionsStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/jdbc/MockArray.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectConditionStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DeleteResultStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/TimeToLocalTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Require.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultBindingRegisterContext.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectConditionStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeKeyStep7.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/UpdateReturningStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Coerce.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/AbstractDMLQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultBindingGetStatementContext.java
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jar/org/jooq/exception/DataChangedException.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/CreateViewFinalStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/util/jaxb/tools/TrimAdapter.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/CommonTableExpressionList.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/DeleteQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/BetweenAndStep12.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/DefaultRecordMapper.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/TableList.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/TablePartitionByStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/RenderContext.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/SelectSeekStep8.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/UniqueKeyImpl.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/SelectGroupByStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/conf/MiniJAXB.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/ColumnList10.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/SelectIntoStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/CustomField.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/RowImpl.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/CursorImpl.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/exception/MockFileDatabaseException.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
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* /opt/cola/permits/1152323545_1618219166.58/0/spring-webmvc-4-2-1-release-sources-2-jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java

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jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /opt/cola/permits/1152323545_1618219166.58/0/spring-webmvc-4-2-1-release-sources-2.jar/org/springframework/web/servlet/resource/GzipResourceResolver.java
* /opt/cola/permits/1152323545_1618219166.58/0/spring-webmvc-4-2-1-release-sources-2.jar/org/springframework/web/servlet/view/InternalResourceViewResolver.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</p>

<p>[@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>

<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.</p>

@since 2.0

*/

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*
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* 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/1152323545_1618219166.58/0/spring-webmvc-4-2-1-release-sources-2-
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*/opt/cola/permits/1152323545_1618219166.58/0/spring-webmvc-4-2-1-release-sources-2-
jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java
* /opt/cola/permits/1152323545_1618219166.58/0/spring-webmvc-4-2-1-release-sources-2-
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--
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* /opt/cola/permits/1152323073_1618219454.91/0/spring-tx-4-2-1-release-sources-2-
jar/org/springframework/transaction/annotation/Propagation.java
* /opt/cola/permits/1152323073_1618219454.91/0/spring-tx-4-2-1-release-sources-2-
jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1152323073_1618219454.91/0/spring-tx-4-2-1-release-sources-2-
jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /opt/cola/permits/1152323073_1618219454.91/0/spring-tx-4-2-1-release-sources-2-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
* /opt/cola/permits/1152323073_1618219454.91/0/spring-tx-4-2-1-release-sources-2-
jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1152323073_1618219454.91/0/spring-tx-4-2-1-release-sources-2-
jar/org/springframework/transaction/annotation/TransactionProxyFactoryBean.java
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* *
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.1352 fast-infoset 1.2.12

1.1353 fast-infoset 1.2.11

1.1354 xcb-util-wm 0.4.1-5.el7
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### 1.1358 spring-jdbc 3.2.8.RELEASE

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*/
/**
 * {@link LobHandler} implementation for Oracle databases. Uses proprietary API
 * to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB}
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * While most databases are able to work with {@link DefaultLobHandler},
 * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
 * Blob/Clob instances created via its own proprietary BLOB/CLOB API,
 * and additionally doesn't accept large streams for PreparedStatement's
 * corresponding setter methods. Therefore, you need to use a strategy like
 * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
 * (which still supports access to Oracle 9i databases).
 *
 * NOTE: As of Oracle 10.2, {@link DefaultLobHandler} should work equally
 * well out of the box. On Oracle 11g, JDBC 4.0 based options such as
 * {@code OracleLobHandler#setStreamAsLob} and {@code OracleLobHandler#setCreateTemporaryLob}
 * are available as well, rendering this proprietary OracleLobHandler obsolete.
 * Also, consider upgrading to a new driver even when accessing an older database.
 * See the {@link LobHandler} interface javadoc for a summary of recommendations.
 *
 * Needs to work on a native JDBC Connection, to be able to cast it to
 * {@code oracle.jdbc.OracleConnection}. If you pass in Connections from a
 * connection pool (the usual case in a Java EE environment), you need to set an
 * appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
 * to allow for automatic retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 *
 * Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
 * this as eager-initializing singleton if you do not want to depend on the Oracle
 * JAR being in the class path: use "lazy-init=true" to avoid this issue.
 *
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 04.12.2003
 * @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [@link DefaultLobHandler#createTemporaryLob} is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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  jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
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  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
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  jar/org/springframework/jdbc/core/StatementCreatorUtils.java
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/**
 * Strategy interface for translating between [link SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [link DataAccessException]
 * hierarchy.
 * 
 * <p>Implementations can be generic (for example, using
 * [link java.sql.SQLException#SQLState SQLState] codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 * 
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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 */
/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */
/**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never [ @code null ])
 */

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* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *
 * This package and related packages are discussed in Chapter 9 of
 * by Rod Johnson (Wrox, 2002).
 *
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  jar/org/springframework/jdbc/core/SqlProvider.java
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  jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-
  jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-
  jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-
  jar/org/springframework/jdbc/datasource/lookupsupport/lob/LobCreatorUtils.java
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jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
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Abstraction for handling large binary fields and large text fields in
specific databases, no matter if represented as simple types or Large OBjects.
Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
{@link OracleLobHandler}; most other databases should be able to work
with the provided {@link DefaultLobHandler}.

Provides accessor methods for BLOBs and CLOBs, and acts as factory for
LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
LobCreators are typically instantiated for each statement execution or for
each transaction; they are not thread-safe because they might track
allocated database resources in order to free them after execution.

Most databases/drivers should be able to work with {@link DefaultLobHandler},
which by default delegates to JDBC's direct accessor methods, avoiding the
{@code java.sql.Blob} and {@code java.sql.Clob} API completely.
{@link DefaultLobHandler} can also be configured to access LOBs using
{@code PreparedStatement.setBlob/setClob} (e.g. for PostgreSQL), through
setting the [@link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.

Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
PreparedStatement's corresponding setter methods. Therefore, you need to use
{@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
of access. The Oracle 10g+ JDBC driver will work with {@link DefaultLobHandler}
as well, with some limitations in terms of LOB sizes depending on DBMS setup;
as of Oracle 11g (or actually, using the 11g driver even against older databases),
there should be no need to use {@link OracleLobHandler} at all anymore.

Of course, you need to declare different field types for each database.
In Oracle, any binary content needs to go into a BLOB, and all character content
beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
portability, use a LobHandler for fields that might typically require LOBs on
some database because of the field size (take Oracle's numbers as a guideline).
Summarizing the recommended options (for actual LOB fields):

- **JDBC 4.0 driver (including Oracle 11g driver):** Use `DefaultLobHandler`, potentially with `streamAsLob=true` if your database driver requires that hint when populating a LOB field. Fall back to `createTemporaryLob=true` if you happen to run into LOB size limitations with your (Oracle) database setup.

- **Oracle 10g driver:** Use `DefaultLobHandler` with standard setup. On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2, DefaultLobHandler should work with standard setup out of the box. Alternatively, consider using the proprietary `OracleLobHandler` (see below).

- **Oracle 9i driver:** Use `OracleLobHandler` with a connection-pool-specific `setNativeJdbcExtractor NativeJdbcExtractor`.

- **PostgreSQL:** Configure `DefaultLobHandler` with `wrapAsLob=true`, and use that LobHandler to access OID columns (but not BYTEA) in your database tables. For all other database drivers (and for non-LOB fields that might potentially turn into LOBs on some databases): Simply use a plain `DefaultLobHandler`.

@since 23.12.2003
@see DefaultLobHandler
@see OracleLobHandler
@see java.sql.ResultSet#getBlob
@see java.sql.ResultSet#getClob
@see java.sql.ResultSet#getBytes
@see java.sql.ResultSet#getBinaryStream
@see java.sql.ResultSet#getString
@see java.sql.ResultSet#getAsciistream
@see java.sql.ResultSet#getAsciestring

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

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  jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
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  jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
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  jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
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  jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
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* /opt/cola/permits/1152321444_1618219175.49/0/spring-jdbc-3-2-8-release-sources-2-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
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1.1359 spring-context 3.0.5.RELEASE

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  jar/org/springframework/context/NoSuchMessageException.java
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  jar/org/springframework/context/HierarchicalMessageSource.java
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  jar/org/springframework/jndi/JndiTemplateEditor.java
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  jar/org/springframework/context/access/DefaultLocatorFactory.java
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  jar/org/springframework/ui/context/HierarchicalThemeSource.java
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* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
* available on WebSphere 5.1 and higher.
* *
* <p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* *
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
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* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/context/annotation/Primary.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/context/ApplicationContext.java
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
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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
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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
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the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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1.1365 zlib 1.2.7-18.el7

1.1365.1 Available under license:

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1.1366 google-http-client-jackson2 1.22.0

1.1367 gsettings-desktop-schemas 3.28.0

3.el7

1.1367.1 Available under license:

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/support/ResourceHolderSupport.java

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jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
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* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
jar/org/springframework/jca/cci/core/CciOperations.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-
jar/org/springframework/transaction/support/ResourceHolder.java

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jar/org/springframework/dao/NonTransientDataAccessResourceException.java
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jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
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* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2.jar/org/springframework/jca/work/SimpleTaskWorkManager.java
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* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2.jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
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* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/jca/work/jboss/JBossWorkManagerUtils.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/cola/permits/1136700814_1613865290.72/0/spring-tx-3-2-11-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.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.

Author: Julio Merino <jmmv84@gmail.com>

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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: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="$isc.copyright.breakline"/>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
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1.1376 jsp 2.2.FR

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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@end small exemple

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@small exemple
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end small exemple

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an `about box'.

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@end c man end

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@end enumerate

@ifnix
@heading END OF TERMS AND CONDITIONS
@end ifnix
@ifinfo
@end ifinfo

@page
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* */

/**
 * Implement this interface when parameters need to be customized based
Create a Map of input parameters, keyed by name.

@throws SQLException if an SQLException is encountered setting parameter values (that is, there's no need to catch SQLException)
 */

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 */
/*
*/
/* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * @param con a JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @return a Map of input parameters, keyed by name (never (code null))
 * @throws SQLException if an SQLException is encountered setting parameter values (that is, there's no need to catch SQLException)
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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
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/**
 * Strategy interface for translating between [@link SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [@link DataAccessException]
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * [@link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

Found in path(s):
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/support/SQLExceptionTranslator.java

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  jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSourceExtensions.kt
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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *<p>This package and related packages are discussed in Chapter 9 of
 * by Rod Johnson (Wrox, 2002).
 */

Found in path(s):
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/package-info.java

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jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
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  jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java

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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/support/SqlValue.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/core/BatchPreparedStatement.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1.jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatement.java

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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/SqlTypeValue.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/support/incrementer/DerbyMaxValueIncrementer.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/SqlQuery.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1.jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5.2.9-release-sources-1-
jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/BatchUpdateUtils.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/object/StoredProcedure.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/object/RowMapper.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/IncorrectResultSetColumnCountException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
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jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplateOperations.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/statements/StatementCallback.java
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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/BadSqlGrammarException.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
jar/org/springframework/jdbc/core/ObjectSqlUpdate.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-
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jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
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jar/org/springframework/jdbc/UncategorizedSQLException.java
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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-jar/org/springframework/jdbc/support/lob/LobHandler.java
* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-jar/org/springframework/jdbc/datasource/init/RowCallbackHandler.java
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* /opt/cola/permits/1135968217_1613642613.64/0/spring-jdbc-5-2-9-release-sources-1-jar/org/springframework/jdbc/datasource/init/RowCallbackHandler.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
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1.1435 libmpc 1.0.1-3.el7

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.1447 test-web-fragment 9.4.11.v20180605
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223233907
Bundle-Classpath: .
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd.
Bundle-Description: Jetty module for Jetty :: Server Core
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Server Core
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.server
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1.1448 scrypt 1.4.0

1.1449 geoipupdate 2.5.0-1.el7
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Found in path(s):
* /opt/cola/permits/1000765672_1607973426.6/0/snmp4j-2-3-0-jar/META-INF/
1.1455 xml-commons-resolver 1.1

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1.1456 taglibs-standard 1.0.3

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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
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*
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*
* M. Welsh, 6 July 1996
*
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Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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package io.swagger.models;

public class License {
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int result = 1;
        result = prime * result + ((name == null) ? 0 : name.hashCode());
        result = prime * result + ((url == null) ? 0 : url.hashCode());
        return result;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        } else if (obj instanceof License) {
            License other = (License) obj;
            return Objects.equals(name, other.name) && Objects.equals(url, other.url);
        }
        return false;
    }

    public static class Builder {
        private String name;
        private String url;

        public Builder name(String name) {
            this.name = name;
            return this;
        }

        public Builder url(String url) {
            this.url = url;
            return this;
        }

        public License build() {
            return new License(name, url);
        }
    }

    public static Builder builder() {
        return new Builder();
    }
}
return true;
}
if (obj == null) {
  return false;
}
if (getClass() != obj.getClass()) {
  return false;
}
License other = (License) obj;
if (name == null) {
  if (other.name != null) {
    return false;
  }
} else if (!name.equals(other.name)) {
  return false;
}
if (url == null) {
  if (other.url != null) {
    return false;
  }
} else if (!url.equals(other.url)) {
  return false;
}
return true;
}

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/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 *  \{code createEntityManager\} call (may be \{code null\})
 * @param entityManagerInterfaces the interfaces to be implemented by the
 *  EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
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1.1483.1 Available under license:
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/* Jackson JSON-processor.
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* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-
jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.1484 jackson-annotations 2.12.2
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* /opt/cola/permits/1152322000_1618219215.49/0/spring-security-taglibs-3-0-7-release-sources-2-
jar/org/springframework/security/taglibs/authz/AuthenticationTag.java
* /opt/cola/permits/1152322000_1618219215.49/0/spring-security-taglibs-3-0-7-release-sources-2-
jar/org/springframework/security/taglibs/velocity/AuthzImpl.java
* /opt/cola/permits/1152322000_1618219215.49/0/spring-security-taglibs-3-0-7-release-sources-2-
jar/org/springframework/security/taglibs/authz/AccessControlListTag.java
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jar/org/springframework/security/taglibs/velocity/Authz.java

1.1488 slf4j 1.7.28

1.1489 python-ipy 0.75 6.el7
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* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-jar/org/springframework/security/remoting/dns/InitialContextFactory.java
* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-jar/org/springframework/security/remoting/dns/DnsResolver.java
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/**
 * A token issued by [@link TokenService].
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
 * they can serve as identifying a unique user session. Implementations of [@link TokenService]
 * are free to use encryption or encoding strategies of their choice. It is strongly recommended that
 * keys are of sufficient length to balance safety against persistence cost. In relation to persistence
 * cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
Reviews the <code>Object</code> returned from a secure object invocation, being able to modify the <code>Object</code> or throw an <code>@link AccessDeniedException</code>.

Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or <code>Collection</code> elements.

Special consideration should be given to using an <code>@link AfterInvocationManager</code> on bean methods that modify a database.

Typically an <code>@link AfterInvocationManager</code> is used with read-only methods, such as <code>public DomainObject getById(id)</code>. If used with methods that modify a database, a transaction manager should be used to ensure any <code>AccessDeniedException</code> will cause a rollback of the changes made by the transaction.

@since 2.0.1
*/

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*/

/* Reviews the <code>Object</code> returned from a secure object invocation,
* being able to modify the <code>Object</code> or throw an <code>@link AccessDeniedException</code>.
* Typically used to ensure the principal is permitted to access the domain
* object instance returned by a service layer bean. Can also be used to
* mutate the domain object instance so the principal is only able to access
* authorised bean properties or <code>Collection</code> elements.
* Special consideration should be given to using an
* <code>@link AfterInvocationManager</code> on bean methods that modify a database.
* Typically an <code>@link AfterInvocationManager</code> is used with read-only
* methods, such as <code>public DomainObject getById(id)</code>. If used with
* methods that modify a database, a transaction manager should be used to
* ensure any <code>AccessDeniedException</code> will cause a rollback of the
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*/

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* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.70/spring-security-core-3-0-5-release-sources-
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* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.70/spring-security-core-3-0-5-release-sources-
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jar/org/springframework/security/access/vote/AuthenticatedVoter.java
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jar/org/springframework/security/access/annotation/Secured.java
* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-
jar/org/springframework/security/access/vote/LabeledData.java
* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-
jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
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/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation.
 * See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 * <p>
 * For internal use only.
 * 
 * @author Luke Taylor
 * @since 3.0
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-
jar/org/springframework/security/core/codec/Base64.java
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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null
 * in which case implementations should return false, as the null condition can be checked explicitly
 * in the expression.
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-
jar/org/springframework/security/access/PermissionEvaluator.java
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*/
/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest
* Algorithm.
* *
* @author Alan Stewart
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1088798609_1599902266.7/0/spring-security-core-3-0-5-release-sources-jar/org/springframework/security/authentication/encoding/Md4.java

**1.1494 dbus-python 1.1.1 9.el7**

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1.1495 tomcat-jsp-api 8.0.53

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* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/JspWriter.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/JspApplicationContext.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/ErrorData.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/TagLibraryInfo.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/BodyTag.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/TagAttributeInfo.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/el/ExpressionEvaluator.java
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* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/java/servlet/jsp/el/ScopedAttributeELResolver.java
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* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/JspEngineInfo.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/JspException.java
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* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/JspFragment.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/el/FunctionMapper.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/el/ImplicitObjectELResolver.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/JspFactory.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/JspPage.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/DynamicAttributes.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/TryCatchFinally.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/TagSupport.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/PageData.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/Tag.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/HttpJspPage.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/TagExtraInfo.java
* /opt/cola/permits/1152321936_1618219070.06/0/tomcat-jsp-api-8-0-53-sources-1-jar/javax/servlet/jsp/tagext/TagInfo.java
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1.1496 lucene-analyzers-common 8.5.0

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* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-jar/org/springframework/aop/TargetSource.java
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Found in path(s):
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
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* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
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* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-
  jar/org/springframework/aop/AfterReturningAdvice.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-
  jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-
  jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-
  jar/org/springframework/aop/target/PoolingConfig.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-
  jar/org/springframework/aop/framework/AopConfigException.java
* /opt/cola/permits/1120268612_1609904342.2/0/spring-aop-4-3-30-release-sources-
  jar/org/springframework/aop/adapter/AdvisorAdapterRegistrationManager.java

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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
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lib/libgss/g_rel_cred.c
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lib/libgss/g_rel_oid_set.c
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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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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
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc.c
- slave/kproplog.c

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1.1509 libndp 1.2-9.el7

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1.1514 css-parser 0.9.27

1.1515 ojdbc 8
1.1515.1 Available under license :
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# or the Oracle proprietary type oracle.xdb.XMLType.

Found in path(s):
* /opt/cola/permits/1207092663_1633951806.13/0/ojdbc-6-sources-1-jar/oracle/jdbc/defaultConnectionProperties.properties

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1.1517 rsyslog 8.24.0-57.el7_9

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* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
  jar/org/apache/commons/logging/impl/Log.java
*/
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization.
created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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An almost complete rewrite of MySpell for use by
the Mozilla project has been developed by David Einstein
(Deinst@world.std.com). David and I are now
working on parallel development tracks to help
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and we will maintain full affix file and dictionary
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a significant help in improving MySpell.

Special thanks also go to La'aszlo' Ne'meth
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.1540 ldb 1.5.4-2.el7

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- 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

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- 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
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- javaee_web_services_client_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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1.1549 rssh 2.3.4-16.el7

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1.1550 xpp 1.1.4c

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1.1551 atk 2.3.93

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### 1.1553 jetty-setuid-java 1.0.3

### 1.1554 jaxen-core 1.0-FCS

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1.1556 terracotta-toolkit-${toolkit-api-version}-api 5.10.0
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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.
We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s ;
; Test that early if conversion produces LOCR with operands of the right; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}

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 */
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}
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hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !
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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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</table>

This is an installer created using CPack (https://cmake.org). No license provided.

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }
define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [i32 1, label %sw.bb.i;i32 2, label %sw.bb3.i]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [i32 1, label %sw.bb.i17;i32 2, label %sw.bb3.i20]

sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

CMake - Cross Platform Makefile Generator
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007
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<tr>
<th>Program</th>
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<tbody>
<tr>
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<tr>
<td>LLVM System Interface Library</td>
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</tbody>
</table>

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
declare fp128 @llvm.fneg.f128(fp128)
declare fp128 @llvm.fneg.f128(fp128)
declare fp128 @llvm.fneg.f128(fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-jar/org/springframework/jms/core/JmsMessageOperations.java
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* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointFactory.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-jar/org/springframework/jms/listener/endpoint/DefaultJmsActivationSpecFactory.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-jar/org/springframework/jms/listener/adapter/MessageListenerAdapter.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-jar/org/springframework/jms/support/converter/MappingJackson2MessageConverter.java
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  jar/org/springframework/jms/annotation/JmsListenerAnnotationBeanPostProcessor.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-
  jar/org/springframework/jms/listener/AbstractPollingMessageListenerContainer.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-
  jar/org/springframework/jms/listener/AbstractAdaptableMessageListener.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-
  jar/org/springframework/jms/listener/endpoint/AbstractJmsMessageListener.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-
  jar/org/springframework/jms/listener/endpoint/AbstractJmsMessageListener.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-
  jar/org/springframework/jms/listener/endpoint/AbstractJmsMessageListener.java
* /opt/cola/permits/1152321538_1618219099.89/0/spring-jms-4-2-1-release-sources-2-
  jar/org/springframework/jms/listener/endpoint/StandardJmsActivationSpecFactory.java

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*/
1.1567 e2fsprogs 1.42.9-19.el7

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Tso <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<

$(BSD_LIB): $(OBJS)
(cd pic; Id -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..: $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the 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:
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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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### Unicode Character Database

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<td></td>
<td>KHR/khrplatform.h</td>
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include/GL/glxext.h
include/GL/wglxext.h

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include/KHR/khrplatform.h

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```
## Apache Xalan v2.7.2

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```
rt/modules/javafx.media/src/main/native/gstreamer/gstreamer-lite/
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* /opt/cola/permits/1152476662_1618244960.14/0/spring-jms-3-2-3-release-sources-2-
  jar/org/springframework/jms/connection/ChainedExceptionListener.java
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  jar/org/springframework/jms/listener/LocallyExposedJmsResourceHolder.java
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jar/org/springframework/jms/listener/adapter/MessageListenerAdapter102.java
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jar/org/springframework/jms/listener/SimpleMessageListenerContainer102.java
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jar/org/springframework/jms/connection/SingleConnectionFactory.java
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jar/org/springframework/jms/MessageNotWriteableException.java
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* /opt/cola/permits/1152476662_1618244960.14/0/spring-jms-3-2-3-release-sources-2-
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jar/org/springframework/jms/connection/ConnectionFactoryUtils.java
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* /opt/cola/permits/1152476662_1618244960.14/0/spring-jms-3-2-3-release-sources-2-jar/org/springframework/jms/SessionCallback.java
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jar/org/springframework/jms/listener/endpoint/ImMessageEndpointFactory.java
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.1600 log-rotate 3.8.6 19.el7

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* /opt/cola/permits/1152476660_1618244992.62/0/spring-jms-3-2-11-release-sources-1- jar/org/springframework/jms/listener/endpoint/DefaultJmsActivationSpecFactory.java

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*/opt/cola/permits/1152476660_1618244992.62/0/spring-jms-3-2-11-release-sources-1-
jar/org/springframework/jms/connection/ChainedExceptionListener.java
*/opt/cola/permits/1152476660_1618244992.62/0/spring-jms-3-2-11-release-sources-1-
jar/org/springframework/jms/connection/CachedMessageProducer.java
*/opt/cola/permits/1152476660_1618244992.62/0/spring-jms-3-2-11-release-sources-1-
jar/org/springframework/jms/connection/CachedMessageConsumer.java
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  jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
* /opt/cola/permits/1152476660_1618244992.62/0/spring-jms-3-2-11-release-sources-1-
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* /opt/cola/permits/1152476660_1618244992.62/0/spring-jms-3-2-11-release-sources-1-jar/org/springframework/jms/listener/adapter/MessageListenerAdapter102.java

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* /opt/ws_local/PERMITS_SQL/1078377000_1597297561.19/0/jackson-mapper-asl-1-9-2-sources-1-
  jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.1607 libpng 1.6.37

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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.

The precise terms and conditions for copying, distribution and modification follow.

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      customarily used for software interchange; or,

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under 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.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.1610 websocket-server 9.4.11.v20180605

1.1611 jcabi-log 0.12.1

1.1612 pyxattr 0.5.1-5.el7
1.1612.1 Available under license :

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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* /opt/cola/permits/1152477201_1618244917.18/0/groovy-groovysh-3-0-7-sources-jar/org/codehaus/groovy/tools/shell/commands/InspectCommand.groovy

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1.1626 wagon-http-lightweight 1.0-beta-2

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The actual classes of The Simple API for CSS (SAC) came from:
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David Megginson, david@megginson.com
1.1629 kexec-tools 2.0.15-43.0.3.el7

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1.1635 camel-core 3.9.0

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1.1637 spring-boot-starter-actuator

1.5.6.RELEASE

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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  

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(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
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1.1655 javax-inject 2.5.0-b42
1.1656  jsch-agentproxy-usocket-nc 0.0.7

1.1657  lua 5.2.2

1.1658  spring-instrument 3.0.5.RELEASE

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  jar/org/springframework/instrument/InstrumentationSavingAgent.java

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  jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
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SLF4J library (slf4j-api-* .jar)

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1.1664 cyrus-sasl 2.1.26 23.el7

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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/jobs/FileScanJob.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/Calendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/utils/JNDIConnectionProvider.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/impl/calendar/HolidayCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/impl/jdbcjobstore/CloudscapeDelegate.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/impl/InterruptableJob.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/Scheduler.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/impl/jdbcjobstore/JobStoreCMT.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/JobExecutionException.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/impl/StdScheduler.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1.jar/org/quartz/xml/ValidationException.java
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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/jobs/ee/jms/SendTopicMessageJob.java
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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/StringKeyDirtyFlagMap.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/listeners/TriggerListenerSupport.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/jdbcjobstore/TablePrefixAware.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/listeners/JobListenerSupport.java
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jar/org/quartz/xml/XMLSchedulingDataProcessor.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-
jar/org/quartz/plugins/xml/XMLSchedulingDataProcessorPlugin.java
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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/Counter.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/sampled/SampledCounterImpl.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/sampled/SampledCounterConfig.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/sampled/SampledRateCounterImpl.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/sampled/SampledRateCounterConfig.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/sampled/TimeStampedCounterValue.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/CounterManager.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/utils/counter/CounterManagerImpl.java

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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/listeners/BroadcastJobListener.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/listeners/BroadcastTriggerListener.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/listeners/JobChainingJobListener.java

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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/DateBuilder.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/PersistJobDataAfterExecution.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/TriggerKey.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/matchers/NameMatcher.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/TimeOfDay.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/matchers/StringMatcher.java
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* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/spi/calendar/BaseCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/spi/calendar/WeeklyCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/spi/calendar/MonthlyCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/spi/calendar/StdCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/calendar/BaseCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/calendar/WeeklyCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/calendar/MonthlyCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/DirectSchedulerFactory.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/ThreadPool.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/CalendarFactory.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/StdSchedulerFactory.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/calendar/StdCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/calendar/WeeklyCalendar.java
* /opt/cola/permits/1006671230_1608588650.63/0/quartz-2-1-0-sources-1-jar/org/quartz/impl/calendar/MonthlyCalendar.java

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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
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1.1686 util-linux 2.23.2-63.el7

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*/
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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Initialize empty image

Create new DOS partition table

---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

---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

---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

Set 2nd partition type

Device Boot     Start   End     Blocks  Id  System
__ts_dev__1     2048   4095    1024    83  Linux
__ts_dev__2     4096   20479  8192    a5  FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start   end     size    fstype  [fsize bsize   cpg]
c:  4096   20479   16384    unused    0     0     0
d:   0     16064   16065    unused    0     0

BSD disklabel command (m for help):
Command (m for help):
---------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start   end     size    fstype  [fsize bsize   cpg]
a:  4096   6144   2049    4.2BSD      0     0     0
c:  4096   20479  16384    unused      0     0

d:   0     16064   16065    unused      0     0

BSD disklabel command (m for help):
Command (m for help):
---------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

```
0  unused           5  4.1BSD       9  4.4LFS       d  boot
1  swap             6  Eighth Edition a  unknown     e  ADOS
2  Version 6        7  4.2BSD       b  HPFS        f  HFS
3  Version 7        8  MS-DOS       c  ISO-9660     10  AdvFS
4  System V
```

BSD disklabel command (m for help):

1.1687 qpid-proton 0.14.0
1.1687.1 Available under license:

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1.1688 jax-ws 2.2.7

1.1689 mariadb 10.4.19
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1.1691 jansson 2.10-1.el7

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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/RowAVL.java
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/**
 * Comprehensive information about the database as a whole.
 * <P>
 * This interface is implemented by driver vendors to let users know the capabilities
 * of a Database Management System (DBMS) in combination with
 * the driver based on JDBC<a>TM</a> technology
 */
* ("JDBC driver") that is used with it. Different relational DBMSs often support
* different features, implement features in different ways, and use different
* data types. In addition, a driver may implement a feature on top of what the
* DBMS offers. Information returned by methods in this interface applies
* to the capabilities of a particular driver and a particular DBMS working
* together. Note that as used in this documentation, the term "database" is
* used generically to refer to both the driver and DBMS.
* <p>
* A user for this interface is commonly a tool that needs to discover how to
* deal with the underlying DBMS. This is especially true for applications
* that are intended to be used with more than one DBMS. For example, a tool might use the method
* <code>getTypeInfo</code> to find out what data types can be used in a
* <code>CREATE TABLE</code> statement. Or a user might call the method
* <code>supportsCorrelatedSubqueries</code> to see if it is possible to use
* a correlated subquery or <code>supportsBatchUpdates</code> to see if it is
* possible to use batch updates.
* <p>
* Some <code>DatabaseMetaData</code> methods return lists of information
* in the form of <code>ResultSet</code> objects.
* Regular <code>ResultSet</code> methods, such as
* <code>getString</code> and <code>getInt</code>, can be used
* to retrieve the data from these <code>ResultSet</code> objects. If
* a given form of metadata is not available, an empty <code>ResultSet</code>
* will be returned. Additional columns beyond the columns defined to be
* returned by the <code>ResultSet</code> object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their <B>column label</B>.
* <p>
* Some <code>DatabaseMetaData</code> methods take arguments that are
* String patterns. These arguments all have names such as <code>fooPattern</code>.
* Within a pattern String, "%" means match any substring of 0 or more
* characters, and "_" means match any one character. Only metadata
* entries matching the search pattern are returned. If a search pattern
* argument is set to <code>null</code>, that argument's criterion will
* be dropped from the search.
* <p>
* A method that gets information about a feature that the driver does not
* support will throw an <code>SQLException</code>.
* In the case of methods that return a <code>ResultSet</code>
* object, either a <code>ResultSet</code> object (which may be empty) is
* returned or an <code>SQLException</code> is thrown.
* </p>
* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h3>HSQLDB-Specific Information:</h3> <p>
* <h4>Metadata Table Production</h4>
* </p>
* </div>
* <!-- end release-specific documentation -->
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role ('admin' users in older HSQLDB parlance) could expect trouble-free access to all metadata. <p>

* Also starting with HSQLDB 1.7.2, the metadata table production implementation classes are loaded dynamically, using a precedence policy to find and load the richest producer available at runtime. In the event that no better alternative is found, the default minimal (completely restricted) provider is selected. Under this scheme, it is possible for third party packagers to create custom distributions targeted at supporting full (design-time), custom-written (proprietary / micro environment), minimal (production-time) or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more about this option, interested parties can review the documentation and source code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>

* Please also note that in addition to the metadata tables produced to directly support this class, starting with HSQLDB 1.7.2, the default build provides many additional tables covering all or most HSQLDB features, such as descriptions of the triggers and aliases defined in the database. <p>

* For instance, in the default build, a fairly comprehensive description of each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table column is included in the REMARKS column of the `{ @link #getTables(java.lang.String, java.lang.String, java.lang.String, java.lang.String[]) getTables(...)} and `{ @link #getColumns(java.lang.String, java.lang.String, java.lang.String, java.lang.String) getColumns(...)} results, which derive from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS, respectively.<p>

* `<h4>Schema Metadata</h4>

* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and this fact is reflected in the all subsequent versions of this class.<p>

* `<h4>Catalog Metadata</h4>

* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond is a major theme which is reflected in the provision of the majority of the standard-defined full-name INFORMATION_SCHEMA views. <p>

* However, just as CATALOG semantics and handling are still considered to be implementation defined by the most recent SQL standard (SQL:2008), so is the HSQLDB CATALOG concept still in the process of being defined and refined in HSQLDB 2.x. and beyond.<p>
* Previous to HSQLDB 2.x, there were, at various points in time, experimental * features provided to turn on pseudo catalog (and before that, pseudo-schema) * reporting in the system tables, using the database properties * 'hsqldb.catalogs' and 'hsqldb.schemas', respectively. <p> * * However, once the engine fully supported the SQL SCHEMA concept, the * experimental 'hsqldb.schemas' * database property was retired. <p> * * Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property * has been retired and replaced with the convention that, from the perspective * of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB * database instance which consists of a single, default CATALOG * named PUBLIC in which each SCHEMA instance of the database resides. The name of * this catalog can be changed with the ALTER CATALOG <name> RENAME TO statement. * As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of * database objects at the syntactic level, but does not yet support operations * such as opening, manipulating or querying against multiple database * catalogs within a single session, not even in a one-at-a-time fashion.<p> * * &lt;h4&gt;Index Metadata&lt;/h4&gt; * * It must still be noted that as of the most recent release, HSQLDB continues * to ignore the &lt;code&gt;approximate&lt;/code&gt; argument of [@link #getIndexInfo * getIndexInfo()] which continues to be simply indicative of absence of a fully * statistics-driven cost-based SQL plan optimization facility. When, * such a facility is implemented, corresponding improvements to * &lt;code&gt;getIndexInfo&lt;/code&gt; will be provided. <p> * * &lt;h4&gt;Notes for developers extending metadata table production&lt;/h4&gt; * * Note that in the absence of an ORDER BY clause, queries against the metadata * tables that directly support this class are expected to return rows in JDBC * contract order. The reason for this is that results typically come * back much faster when no &quot;ORDER BY&quot; clause is used. <p> * * As such, when adding, extending or replacing a JDBC database metadata table * production routine, developers need to be aware of this fact and either add the * contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible, * preferably maintain rows in the contract order by correctly coding the * primary index definition in the table producer class.<p> * * &lt;hr&gt; * * &lt;b&gt;JRE 1.1.x Notes:&lt;/b&gt; &lt;p&gt; * * In general, JDBC 2 support requires Java 1.2 and above, and JDBC3 requires * Java 1.4 and above. In HSQLDB, support for methods introduced in different
* versions of JDBC depends on the JDK version used for compiling and building
* HSQLDB.<p>
*
* Since 1.7.0, it is possible to build the product so that
* all JDBC 2 methods can be called while executing under the version 1.1.x
* <em>Java Runtime Environment</em>&lt;sup&gt;&lt;font size="-2">TM&lt;/font&gt;&lt;/sup&gt;.<p>
* However, some of these method calls require <code>int</code> values that
* are defined only in the JDBC 2 or greater version of the
* [<link java.sql.ResultSet ResultSet> interface. For this reason, when the
* product is compiled under JDK 1.1.x, these values are defined in
* [<link JDBCResultSet JDBCResultSet>.<p>
* In a JRE 1.1.x environment, calling JDBC 2 methods that take or return the
* JDBC2-only <code>ResultSet</code> values can be achieved by referring
* to them in parameter specifications and return value comparisons,
* respectively, as follows: <p>
* <pre class="JavaCodeExample"
* JDBCResultSet.FETCH_FORWARD
* JDBCResultSet.TYPE_FORWARD_ONLY
* JDBCResultSet.TYPE_SCROLL_INSENSITIVE
* JDBCResultSet.CONCUR_READ_ONLY
* // etc
* </pre>
* However, please note that code written in such a manner will not be
* compatible for use with other JDBC 2 drivers, since they expect and use
* <code>ResultSet</code>, rather than <code>JDBCResultSet</code>. Also
* note, this feature is offered solely as a convenience to developers
* who must work under JDK 1.1.x due to operating constraints, yet wish to
* use some of the more advanced features available under the JDBC 2
* specification.<p>
* (fredt@users)<br>
* (boucherb@users)<br>
* <!-- end release-specific documentation -->
* @author Campbell Boucher-Burnet (boucherb@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.0.1
* @revised JDK 1.6, HSQLDB 2.0
* @revised JDK 1.7, HSQLDB 2.0.1
* @see org.hsqldb.dbinfo.DatabaseInformation
* @see org.hsqldb.dbinfo.DatabaseInformationMain
* @see org.hsqldb.dbinfo.DatabaseInformationFull
*/
Found in path(s):
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowOutputBinaryEncode.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/LineReader.java
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowOutputTextQuoted.java
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/LongDeque.java
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/test/TestKarl.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/ExpressionLike.java
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/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to sent to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
* terminate the line, as we have it specified here, but I'd rather not be
* too liberal with proprietary SQL like this, because it's easy to
* envision other proprietary or non-proprietary commands beginning with
* DECLARE or BEGIN. */

Found in path(s):
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-
  jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java
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?q to Quit.
? lists Special Commands.
:? lists Edit-Buffer/History commands.
:* lists PL commands.
/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with 'v' and execute when you hit ENTER. EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER. MACRO executions and definitions begin with '/' and end when you hit ENTER. All other lines comprise SQL Statements (or comments). SQL Statements are terminated by either unquoted '.' (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).

After turning on variable expansion with command "*" (or any other PL command), PL variables may be used in most commands like so: *{PLVARNAME}.

Be aware when using regular expressions on commands, that the regex.s operate only on the command text after the * or \\ prefix, if any.

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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text

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*/
/**
 * provides cross-package access to the proprietary (i.e. non-JDBC)
 * HSQLDB session interface. <P>
 *
 * @return the underlying sessionProxy for this connection
 */

Found in path(s):
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-
  jar/org/hsqldb/jdbc/JDBCConnection.java

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**1.1693 postfix 2.10.1-9.el7**

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1.1697 libcap 2.22 11.el7

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 *
 * <p>Does not provide a way to transmit checked exceptions but
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jar/org/springframework/jmx/export/MBeanExportOperations.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="https://bit.ly/UzccDr">{@code AdminServiceFactory}</a> and
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */
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  jar/org/springframework/context/support/StaticMessageSource.java
  */opt/cola/permits/1137268674_1614043171.91/0/spring-context-4-3-30-release-sources-1-
  jar/org/springframework/jndi/JndiLocatorSupport.java
  */opt/cola/permits/1137268674_1614043171.91/0/spring-context-4-3-30-release-sources-1-
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/**
* Indicates that a component is only eligible for registration when all
* @linkplain #value specified conditions} match.
* 
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see @link Condition for details).
* 
* <p>The [@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* @code @Component}, including [@link Configuration @Configuration] classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any [@link Bean @Bean} method</li>
* </ul>
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import` annotations, and `@ComponentScan` annotations associated with that class will be subject to the conditions.

*NOTE:* Inheritance of `@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
*/

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* /opt/cola/permits/1137268674_1614043171.91/0/spring-context-4-3-30-release-sources-1-jar/org/springframework/scheduling/context/format/datetime/standard/DateTimeFormatterRegistrar.java
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* /opt/cola/permits/1137268674_1614043171.91/0/spring-context-4-3-30-release-sources-1-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /opt/cola/permits/1137268674_1614043171.91/0/spring-context-4-3-30-release-sources-1-jar/org/springframework/context/expression/CachedExpressionEvaluator.java
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* /opt/cola/permits/1137268674_1614043171.91/0/spring-context-4-3-30-release-sources-1-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
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  */opt/cola/permits/1137268674_1614043171.91/0/spring-context-4.3.30-release-sources-1.jar/org/springframework/scheduling/scheduled/annotation/AsyncConfigurerSupport.java
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cmd/krb5/prop/prop.x
`cmd/krb5/prop/prop_hdr.h
`cmd/krb5/kadmin/server/ipropd_svc.c
`cmd/krb5/kproplog/kproplog.c
`cmd/krb5/slave/kpropd_rpc.c
`lib/gss_mechs/mech_krb5/et/kdb5_err.c
`lib/gss_mechs/mech_spnego/mehc/gssapiP_spnego.h
`lib/gss_mechs/mech_spnego/mehc/spnego_mech.c
`lib/krb5/kadm5/kadm_host_srv_names.c
`lib/krb5/kdb/kdb_convert.c
`lib/krb5/kdb/kdb_hdr.h
`lib/krb5/kdb/kdb_log.c
`lib/krb5/kdb/kdb_log.h
`lib/libgss/g_accept_sec_context.c
`lib/libgss/g_acquire_cred.c
`lib/libgss/g_canon_name.c
`lib/libgss/g_compare_name.c
`lib/libgss/g_context_time.c
`lib/libgss/g_delete_sec_context.c
`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
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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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"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
slave/kpropd_rpc.c
slave/kpropllog.c

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* /opt/cola/permits/1136271570_1613725498.21/0/servlet-api-2-3-sources-1-jar/javax/servlet/jsp/JspPage.java
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* /opt/cola/permits/1136271570_1613725498.21/0/servlet-api-2-3-sources-1-jar/javax/servlet/jsp/tagext/VariableInfo.java
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* /opt/cola/permits/1136271570_1613725498.21/0/servlet-api-2-3-sources-1-jar/javax/servlet/jsp/tagext/BodyTagSupport.java
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* /opt/cola/permits/1136271570_1613725498.21/0/servlet-api-2-3-sources-1-jar/javax/servlet/jsp/tagext/JspTagException.java
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SNMP4J - AbstractTarget.java

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```
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/**
 * #
 */
/* -snmp4j-util-EnumerationIterator.java

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SNMP4J - UsmSecurityParameters.java

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1.1716 geo-ip 1.5.0 14.el7

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1.1717 libxv 1.0.11 1.el7

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Author:

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Included for the use of the fix_strcasecmp.c module which works
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1.1727 perl-uri 1.60 9.el7

1.1728 aether-impl 1.0.2.v20150114

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1.1729 dwz 0.11 3.el7

1.1730 nss-pem 1.0.3-7.el7

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Found in path(s):
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jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
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 * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/mapper/MapperWrapper.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
  jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
  jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
  jar/com/thoughtworks/xstream/persistence/XmlSet.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1.4-16-sources-jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1.4-16-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java

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jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
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jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/io/path/PathTracker.java

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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java

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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java

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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java
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  jar/com/thoughtworks/xstream/io/xml/XppDriver.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
  jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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  * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
    jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.16
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.16 Sources
Eclipse-SourceBundle: xstream;version=1.4.16
Specification-Version: 1.4
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  jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java
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jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java
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jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
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jar/com/thoughtworks/xstream/io/xml/XomDriver.java
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jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java

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c.t.x.converters.reflection.SerializationMemberInvoker.
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java
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  jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
  */opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
  jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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  */opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
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- /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/AnyTypePermission.java
- /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/TypePermission.java
- /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
- /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
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jar/com/thoughtworks/xstream/converters/extended/ColorConverter.java
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jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
  * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
  * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/core/StringCodec.java
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Found in path(s):
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jar/com/thoughtworks/xstream/converters/MarshallingContext.java

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jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java

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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
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jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java
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jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources.jar/com/thoughtworks/xstream/converters/collections/package.html
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jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
jar/com/thoughtworks/xstream/annotations/Annotations.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/AttributeNameIterator.java
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Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/persistence/StreamStrategy.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
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 Found in path(s):
 * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
 jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
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 * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
 jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java
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 * /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-
 jar/com/thoughtworks/xstream/core/util/PresortedSet.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java

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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java

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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java

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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java
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/**
* A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
* {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({{@link
* #parse(java.lang.String)}}
* and ({{@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
* {@link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* {@link #setProperty SAX property mechanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of {@link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* {@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* {@link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
* 
* @author Laurent Bihanic
*/
/**
 * Sets the value of a property.
 *<p>
 * The property name is any fully-qualified URI. It is
 * possible for an XMLReader to recognize a property name but
 * to be unable to set its value.</p>
 *<p>
 * XMLReaders are not required to recognize setting any
 * specific property names, though a core set is provided with
 * SAX2.</p>
 *<p>
 * Some property values may be immutable or mutable only
 * in specific contexts, such as before, during, or after
 * a parse.</p>
 *<p>
 * This method is also the standard mechanism for setting
 * extended handlers.</p>
 *<p>
 *<strong>Note</strong>: This implementation only supports two
 * proprietary properties: [ @link #CONFIGURED_XSTREAM_PROPERTY]
 * and [ @link #SOURCE_OBJECT_LIST_PROPERTY].</p>
 *
 * @param name  the property name, which is a fully-qualified URI.
 * @param value the requested value for the property.
 * @throws SAXNotRecognizedException when the XMLReader does not
 * recognize the property name.
 * @throws SAXNotSupportedException  when the XMLReader recognizes
 * the property name but cannot set
 * the requested value.
 * @see #getProperty
 */
/**
 * Parses an XML document from a system identifier (URI).
 *<p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier. It is the exact
 * equivalent of the following:</p>
 *<blockquote>
 *<pre>
 * parse(new InputSource(systemId));
 *</pre>
 *</blockquote>
 *
 * If the system identifier is a URL, it must be fully resolved
 * by the application before it is passed to the parser.</p>
 *<p>
 *<strong>Note</strong>: As a custom SAX parser, this class
 * ignores the <code>systemId</code> argument of this method
* and relies on the proprietary SAX property
* \{@link SOURCE_OBJECT_LIST_PROPERTY\}) to define the list of
* objects to serialize.</p>
*
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
* another exception.
* @see #parse(org.xml.sax.InputSource)
*/

Found in path(s):
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1.4.16-sources-
* jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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* jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1.4.16-sources-
* jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java
* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1.4.16-sources-
* jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java
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* /opt/cola/permits/1147727218_1617243431.25/0/xstream-1-4-16-sources-jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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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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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Network Working Group    H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational    M. Bellare
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February 1997

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Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
     UCSD
     R. Canetti
     IBM
February 1997

    HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
Parts of nss.c are derived from the Mozilla NSS 3.9.2 source,mozilla/security/nss/cmd/smime/tools/cmsutil.c. Therefore:

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* /opt/cola/permits/1178914335_1625807737.59/0/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java
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@(#)package.html1.60 98/01/27

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* /opt/cola/permits/1178914335_1625807737.59/0/jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/package.html

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AN ADDITIONAL DOCUMENT OFFERING THE ADDITIONAL RIGHTS DESCRIBED IN SECTION 3.5.

3.2. Availability of Source Code.

ANY MODIFICATION WHICH YOU CREATE OR TO WHICH YOU CONTRIBUTE MUST BE MADE AVAILABLE IN SOURCE CODE FORM UNDER THE TERMS OF THIS LICENSE EITHER ON THE SAME MEDIA AS AN EXECUTABLE VERSION OR VIA AN ACCEPTED ELECTRONIC DISTRIBUTION MECHANISM TO ANYONE TO WHOM YOU MADE AN EXECUTABLE VERSION AVAILABLE; AND IF MADE AVAILABLE VIA ELECTRONIC DISTRIBUTION MECHANISM, MUST REMAIN AVAILABLE FOR AT LEAST TWELVE (12) MONTHS AFTER THE DATE IT INITIALLY BECAME AVAILABLE, OR AT LEAST SIX (6) MONTHS AFTER A SUBSEQUENT VERSION OF THAT PARTICULAR MODIFICATION HAS BEEN MADE AVAILABLE TO SUCH RECIPIENTS. YOU ARE RESPONSIBLE FOR ENSURING THAT THE SOURCE CODE VERSION REMAINS AVAILABLE EVEN IF THE ELECTRONIC DISTRIBUTION MECHANISM IS MAINTAINED BY A THIRD PARTY.

3.3. Description of Modifications.

YOU MUST CAUSE ALL COVERED CODE TO WHICH YOU CONTRIBUTE TO CONTAIN A FILE DOCUMENTING THE CHANGES YOU MADE TO CREATE THAT COVERED CODE AND THE DATE OF ANY CHANGE. YOU MUST INCLUDE A PROMINENT STATEMENT THAT THE MODIFICATION IS DERIVED, DIRECTLY OR INDIRECTLY, FROM ORIGINAL CODE PROVIDED BY THE INITIAL DEVELOPER AND INCLUDING THE NAME OF THE INITIAL DEVELOPER IN (A) THE SOURCE CODE, AND (B) IN ANY NOTICE IN AN EXECUTABLE VERSION OR RELATED DOCUMENTATION IN WHICH YOU DESCRIBE THE ORIGIN OR OWNERSHIP OF THE COVERED CODE.

3.4. Intellectual Property Matters

(a) Third Party Claims

IF CONTRIBUTOR HAS KNOWLEDGE THAT A LICENSE UNDER A THIRD PARTY’S INTELLECTUAL PROPERTY RIGHTS IS REQUIRED TO EXERCISE THE RIGHTS GRANTED BY SUCH CONTRIBUTOR UNDER SECTIONS 2.1 OR 2.2, CONTRIBUTOR MUST INCLUDE A TEXT FILE WITH THE SOURCE CODE DISTRIBUTION TITLED “LEGAL” WHICH DESCRIBES THE CLAIM AND THE PARTY MAKING THE CLAIM IN SUFFICIENT DETAIL THAT A RECIPIENT WILL KNOW WHOM TO CONTACT. IF CONTRIBUTOR OBTAINS SUCH KNOWLEDGE AFTER THE MODIFICATION IS MADE AVAILABLE AS DESCRIBED IN SECTION 3.2, CONTRIBUTOR SHALL PROMPTLY MODIFY THE LEGAL FILE IN ALL COPIES CONTRIBUTOR MAKES AVAILABLE THEREAFTER AND SHALL TAKE OTHER STEPS (SUCH AS NOTIFYING APPROPRIATE MAILING LISTS OR NEWSGROUPS) REASONABLY CALCULATED TO INFORM THOSE WHO RECEIVED THE COVERED CODE THAT NEW KNOWLEDGE HAS BEEN OBTAINED.

(b) Contributor APIs

IF CONTRIBUTOR’S MODIFICATIONS INCLUDE AN APPLICATION PROGRAMMING
INTERFACE AND CONTRIBUTOR HAS KNOWLEDGE OF PATENT LICENSES WHICH ARE
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INCLUDE THIS INFORMATION IN THE LEGAL FILE.

(c) Representations.

CONTRIBUTOR REPRESENTS THAT, EXCEPT AS DISCLOSED PURSUANT TO SECTION
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YOU MAY DISTRIBUTE OR OTHERWISE MAKE AVAILABLE COVERED CODE IN
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5. Application of this License

THIS LICENSE APPLIES TO CODE TO WHICH THE INITIAL DEVELOPER HAS ATTACHED THE NOTICE IN EXHIBIT A AND TO RELATED COVERED CODE.

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control with that entity. For the purposes of this definition,
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DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
eplode.c) was originally written by Mark Adler who submitted it
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1.1755 axiom-api 1.2.5

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1.1758 spring-data-jpa 1.3.4.RELEASE

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1.1767 neko-html 1.9.13

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* @param emf EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
*     [code createEntityManager] call (may be [code null])
* @param entityManagerInterfaces the interfaces to be implemented by the
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*/
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* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java
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Found in path(s):
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/jdo/support/StandardPersistenceManagerProxyBean.java
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* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/ibatis/support/BlobSerializableTypeHandler.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/hibernate3/TypeDefinitionBean.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/ibatis/support/BlobByteArrayTypeHandler.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/ibatis/support/ClobStringTypeHandler.java
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Found in path(s):
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/hibernate4/SpringSessionContext.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jdo/support/JdoDaoSupport.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/hibernate3/LocalCacheProviderProxy.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jpa/EntityManagerFactoryInfo.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jdo/support/SpringPersistenceManagerProxyBean.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/hibernate3/HibernateObjectRetrievalFailureException.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jpa/JpaOptimisticLockingFailureException.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jpa/OpenEntityManagerInViewInterceptor.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jpa/SharedEntityManagerBean.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jpa/SharedEntityManagerBean.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-
jar/org/springframework/orm/jpa/SharedEntityManagerBean.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaOperations.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/ibatis/SqlMapClientOperations.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jdo/JdoOperations.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jdo/JdoOperations.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jdo/JdoAccessor.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/hibernate3/SessionHolder.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/hibernate3/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/hibernate4/support/package-info.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/hibernate4/support/package-info.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/vendor/TopLinkJpaVendorAdapter.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitManager.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitManager.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/persistenceunit/IdTransferringMergeEventListener.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaTemplate.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaCallback.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaSystemException.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaDialect.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaObjectRetrievalFailureException.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaObjectRetrievalFailureException.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaObjectRetrievalFailureException.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/JpaCallback.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewFilter.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewFilter.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/ibatis/SqlMapClientTemplate.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2.jar/org/springframework/orm/hibernate3/SpringSessionContext.java
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* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/jpa/EntityManagerHolder.java
* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/jdo/PersistenceManagerHolder.java

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* /opt/cola/permits/1152477104_1618244595.28/0/spring-orm-3-2-3-release-sources-2-jar/org/springframework/orm/jpa/EntityManagerPlus.java
1.1775 libjpeg 9b

1.1775.1 Available under license:
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/*
   * 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. Ligttenberg and G. Moschytz, "Practical Fast 1-D DCT
   * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
   * The primary algorithm described there uses 11 multiplies and 29 adds.
   * We use their alternate method with 12 multiplies and 32 adds.
   * The advantage of this method is that no data path contains more than one
   * multiplication; this allows a very simple and accurate implementation in
   * scaled fixed-point arithmetic, with a minimal number of shifts.
   *
   * We also provide IDCT routines with various output sample block sizes for
   * direct resolution reduction or enlargement without additional resampling:
   * NxN (N=1...16) pixels for one 8x8 input DCT block.
   *
   * For N<8 we simply take the corresponding low-frequency coefficients of
   * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
   * to yield the downscaled outputs.
   * This can be seen as direct low-pass downsampling from the DCT domain
*/
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
* 
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/jidctint.c
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/*
 * 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.
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 *
 */

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  UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/jsimd.h
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/*
 * jquant2.c
 *
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 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional

* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jquant2.c

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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

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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/j/libjpeg-turbo-1.2.90/coderules.txt
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/*
 * jmemmgr.c
 */

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* For conditions of distribution and use, see the accompanying README file.
This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.

The major functions provided here are:
- pool-based allocation and freeing of memory;
- policy decisions about how to divide available memory among the virtual arrays;
- control logic for swapping virtual arrays between main memory and backing storage.

The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.

This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)

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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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* 
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* 
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* 
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* 
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* 
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jfdctflt.c
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* rdppm.c
* 
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* Modified 2009 by Bill Allombert, Guido Vollbeding.
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* 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:

```
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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.

```
```

No license file was found, but licenses were detected in source scan.
The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
--------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.
/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
* 1x1 is trivial: just take the DC coefficient divided by 8.
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/*
* cerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmainct.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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

/ *
* jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, 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 write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

;
; jsimdxext.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.
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; Permission is granted to anyone to use this software for any purpose,
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; 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] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT    .text   progbits align=16
%define SEG_CONST   .rodata progbits align=16
%else
%define SEG_TEXT    .text   progbits alloc exec nowrite align=16
%define SEG_CONST   .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name)  name			; foo() -> foo

%elifdef AOUT;  ----(nasm -faouth/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aouthb -DAOUT ...)

Open Source Used In OnPrem2.1 2.2 16407
; -- segment definition --
;
%define SEG_TEXT  .text
%define SEG_CONST  .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ..)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT  .text :align=16; nasm doesn't accept align=16. why?
%define SEG_CONST  .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL  _MACHO_PIC_; Mach-O style code-relative addressing

%else; ---(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT  .text
%define SEG_CONST  .data

%endif; ---------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword           ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD    ; sizeof(INT)
%define INT_BIT        DWORD_BIT    ; sizeof(INT)*BYTE_BIT
%
%define FP32           dword      ; IEEE754 single
%define SIZEOF_FP32   SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT       DWORD_BIT    ; sizeof(FP32)*BYTE_BIT
%
%define MMWORD         qword       ; int64  (MMX register)
%define SIZEOF_MMWORD  SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT     QWORD_BIT   ; sizeof(MMWORD)*BYTE_BIT
%
; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD        ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT    QWORD_BIT   ; sizeof(XMMWORD)*BYTE_BIT
%
; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD
%
%define SIZEOF_BYTE    1          ; sizeof(BYTE)
%define SIZEOF_WORD    2          ; sizeof(WORD)
%define SIZEOF_DWORD   4          ; sizeof(DWORD)
%define SIZEOF_QWORD   8          ; sizeof(QWORD)
%define SIZEOF_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

 ifndef 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_GOT1
; NOTE: this macro destroys ecx resister.
call%%geteip
add ecx, byte (%%ref - $)
jmpshort %%adjust
%%%geteip:
mov ecx, POINTER [esp]
ret
%%%adjust:
push ebp
xorebp, ebp; ebp = 0
%ifidni %1, ebx; (%1 == ebx)
; db 0x8D, 0x9C + jmp near const_base =
lea ebx, [ecx+ebp*8+(const_base-%%ref)]; 8D, 9C, E9,(offset32)
dbx8D, 0x9C; 8D, 9C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:
%else; (%1 != ebx)
; db 0x8D, 0x8C + jmp near const_base =
lea ecx, [ecx+ebp*8+(const_base-%%ref)]; 8D, 8C, E9,(offset32)
dbx8D, 0x8C; 8D, 8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref: mov %1, ecx
%endif; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_  ---------------
%define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call%%geteip
add %1, GOT_SYMBOL + $$ - $ wret ..gotpc
jmpshort %%done
%%%geteip:
mov %1, POINTER [esp]
ret
%
%done:
%
endmacro
%
endif; GOT_SYMBOL == _MACHO_PIC_----------------
%
imacro pushpic1.nolist
push1
%
endmacro
%
imacro poppic1.nolist
pop1
%
endmacro
%
imacro movpic2.nolist
mov1,2
%
endmacro
%
else; !PIC-----------------------------------------
%
define GOTOFF(got,sym) (sym)
%
imacro get_GOT1.nolist
%
endmacro
%
imacro pushpic1.nolist
%
endmacro
%
imacro poppic1.nolist
%
endmacro
%
imacro movpic2.nolist
%
endmacro
%
endif; PIC-----------------------------------------
;
; Align the next instruction on {2,4,8,16,..}-byte boundary.
; ";.balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%
%define FILLB(b,n)  (($$-(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($,%1)9 \
   db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%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 \

; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/3 
  db 0x8D,0x6C,0x25,0x00                      ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/2 
  db 0x8B,0xED                                 ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%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 "jsimcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimdext.inc
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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWt7FaR/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmerge.c

No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
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* 

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*
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*
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* 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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjbench.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjbench.c

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/*
* transupp.h
*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate

* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/transupp.h
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%ifarch x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less
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.

```bash
#-->%prep
#-->%setup -q

#-->%build
#-->%./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install
rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/%{__lib} doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs $RPM_BUILD_ROOT/usr/include/turbojpeg.h $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
ln -fs $RPM_BUILD_ROOT/usr/include/turbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/._defaultdocdir
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/._defaultdocdir/

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT
%files
%defattr(-,root,root)
%dir %/_defaultdocdir/%{name}-%{version}
```
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
/opt/%{name}/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so
/usr/%{__lib}/libturbojpeg.a
/usr/include/turbojpeg.h
%dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
%dir /opt/%{name}/man
%dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@

%changelog

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJaJ/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

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Open Source Used In OnPrem2.1 2.2 16422

UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
*/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jdcolmmx.asm
No license file was found, but licenses were detected in source scan.

/*
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
*/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
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 *
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 *
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 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
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 * 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.
*/

package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

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/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

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/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
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 * 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 jpegerr.h if they want to know the exact error codes.
Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jpeglib.h
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/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/transupp.c
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/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* `/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWx7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAe/libjpeg-turbo-1.2.90/jfdctfst.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)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

;-----------------------------------------------------------------------------

Found in path(s):
* `/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
/*
 * 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 fileRead quantization tables from text file
 * -scans fileRead scan script from text file
 * -quality N[N,...]Set quality ratings
 * -qslots N[N,...]Set component quantization table selectors
 * -sample HxV[,...]Set component sampling factors
 */

Found in path(s):
* /libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdswitch.c

/*
 * 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):
* /libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcapistd.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.

This file contains a fast, not so accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
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* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7

%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
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; for more details.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
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 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.
/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,       *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                         *
*****************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdgif.c

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/*
 * wrrle.c
 *
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 * 
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 * 
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 * 
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 * 
 * http://docs.jquery.com/UI
 */

-Nazi

/*
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
 * Date: 2/8/2008
 * @author Ariel Flesler
 * @version 1.3.2
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/doc/html/jquery.js
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/*
 * jdatasrc.c
 * 
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* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
/opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdatasrc.c

No license file was found, but licenses were detected in source scan.

/*
* jdcolor.c
*
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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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcolor.c

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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/turbojpeg-jni.c
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java

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/*/ 
* 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.
*/

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/*
 * jdatasrc-tj.c
 *
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 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
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 * 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:
  * \texttt{djpeg [options] inputfile outputfile}
  * \texttt{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
      * \texttt{djpeg [options] -outfile outputfile inputfile}
      * works regardless of which command line style is used.

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* jdcoefct.c
*

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*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/ *
* jdsample.c
*
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This file contains upsampling routines.

Upsampling input data is counted in "row groups". A row group
is defined to be \((v\_samp\_factor \times DCT\_scaled\_size / \min DCT\_scaled\_size)\)
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 upampler is applying a scale factor of its own).

An excellent reference for image resampling is

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This file contains declarations for Huffman entropy decoding routines
that are shared between the sequential decoder (jdhuff.c) and the
progressive decoder (jdphuff.c). No other modules need to see these.

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This file contains declarations for Huffman entropy decoding routines
that are shared between the sequential decoder (jdhuff.c) and the
progressive decoder (jdphuff.c). No other modules need to see these.

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/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains common declarations for the sample applications
 * cjpegs and djpegs. It is NOT used by the core JPEG library.
 */
opened source used in onprem2.1 2.2 16440

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/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

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# 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.
#!/bin/sh

if [ ! "`id -u" = "0" ]; then
echo "ERROR: This script must be executed as root"
exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM='lsbom -s -f -l `$RECEIPT'/Contents/Archive.bom'
else
  LSBOM='pkgutil --files '$MACPACKAGE
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
  if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

/*
 * quant1.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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRi/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. Hierarchical processes are not
supported.

The library does not support the lossless (spatial) JPEG process. Lossless
JPEG shares little or no code with lossy JPEG, and would normally be used
without the extensive pre- and post-processing provided by this library.
We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG
spec should be readable for decompression. (We can be more restrictive about
what formats we can generate.) Although the system design allows for all
parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore,
we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a
run-time option, because most machines can store 8-bit pixels much more
compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, libtiff uses this
library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)
Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to
have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirectioning through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)
(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than
one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data

------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

|-- Colorspace conversion
  |-- Preprocessing controller --|
  |                             |-- Downsampling
This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now
emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.
*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
       |-- Dequantize, Inverse DCT
Main controller --|
             |-- Upsampling
             |-- Postprocessing controller --| |-- Colorspace conversion
                                |-- Color quantization
                                |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.
* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller’s DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.
The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE; // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.

The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
without extra copying. This trick allows some speedups in smoothing steps
that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the
traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on each component independently,
because they don't need to know how many components there are. Furthermore,
we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by \( N \) consecutive JSAMPLE values, and an image row is an array of
\((\text{# of color components}) \times \text{(image width)}\) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

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 JBLOCROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can’t rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the
permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (i.e., the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'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 jdcoeft.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.
*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.
*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).
We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
============================================

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge’ Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels. Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

In plain English:
1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub, autoconf, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but also is freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.iijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/*. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc8d.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.
[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and 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 jsimdefg.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/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.

This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was
broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo’s accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct
results when the JPEG quality is $\geq 98$ 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.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
==================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.
[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93  

======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91  

======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90  

======

Initial release

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90-ChangeLog.txt

No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdrle.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 stdout under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJl/libjpeg-turbo-1.2.90/jidctflt.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

Open Source Used In OnPrem2.1 2.2 16481
/* Define this if your compiler implements ">>" on signed values as a logical * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift, * which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper, * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c). * Other applications can ignore these. */
#endif JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command * line, rather than using stdout and optionally stdin. You MUST do this if * your system can't cope with binary I/O to stdin/stdout. See comments at * head of cjpeg.c or djpeg.c. */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files. * This is crucial under MS-DOS, where the temporary "files" may be areas * of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb"). * This is necessary on systems that distinguish text files from binary files, * and is harmless on most systems that don't. If you have one of the rare * systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEGL نهاية الجملة */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJAj/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJAj/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
License: IJG

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo.spec

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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAq/libjpeg-turbo-1.2.90/wrppm.c

No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding).  The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */
/*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmto gif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on G IFENCODE by David Rowley <mgardi@watdscu.w atterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its *
* documentation for any purpose and without fee is hereby granted, provided *
* that the above copyright notice appear in all copies and that both that *
* copyright notice and this permission notice appear in supporting *
* documentation. This software is provided "as is" without express or *
* implied warranty.
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ9/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.
/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains Huffman entropy encoding routines.
 * *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jdmarker.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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jversion.h
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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJ/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/*/ 
* jinclude.h
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWflyFaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJJ/libjpeg-turbo-1.2.90/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWflyFaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJJ/libjpeg-turbo-1.2.90/jdct.h

No license file was found, but licenses were detected in source scan.

/*
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
Most of the complexity here is associated with buffering input rows as required by the downsampler. See the comments at the head of jcsample.c for the downsampler's needs.

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.

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.

jcprepc.t
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/ReadMe.rtf
No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *

* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains Huffman entropy decoding routines for progressive JPEG.
* 
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/wrtarga.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

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
```
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width	Width of image, in pixels
image_height	Height of image, in pixels
input_components	Number of color channels (samples per pixel)
in_color_space	Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more
than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */  
cinfo.image_height = Height;  
cinfo.input_components = 3; /* # of color components per pixel */  
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);  
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)  
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use
the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1];/* pointer to a single row */
int row_stride;/* physical row width in buffer */

row_stride = image_width * 3;/* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdout destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdout destination manager, don't forget to close the output
stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:
* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want
to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.
It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decomposition parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the
If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object.
The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements
may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine).
Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
                           boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.
```

```
int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.
```

```
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[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 FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colors() 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_colors() 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.
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
The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.
When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colors(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that
these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- RGB => GRAYSCALE
- GRAYSCALE => RGB
- YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image.
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling

--------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)

The individual methods that you might wish to override are:
error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
er->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).
Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.

A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

    JOCTET * next_output_byte;  /* => next byte to write in buffer */
    size_t free_in_buffer;      /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)  
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)  
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)  
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;       /* # of bytes remaining in buffer */
The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)  
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)  
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)  
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)  
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)  
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the
JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression,
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:

```c
    do {
      absorb any waiting input by calling jpeg_consume_input()
      final_pass = jpeg_input_complete(&cinfo);
      adjust output decompression parameters if required
      jpeg_start_output(&cinfo, cinfo.input_scan_number);
      ...
      jpeg_finish_output()
    }
```
while (! final_pass);
rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number; if a
higher-quality final pass is to be done, it should be started (aborting any
incomplete output pass) as soon as the end of file is received. However,
many other strategies are possible. For example, the application can examine
the parameters of the current input scan and decide whether to display it or
not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it
returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher
number as the target scan for jpeg_start_output(); but that method doesn’t let you inspect the next scan’s parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn’t fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very “fuzzy” look instead of the very “blocky” look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows
up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below.

You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL.)
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image
mode only when the incoming file actually has multiple scans. This can be
tested by calling jpeg_has_multiple_scans(), which will return a correct
result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input
processing get ahead of output processing, the resulting pattern of access to
the coefficient buffer is quite nonsequential. It’s best to use the memory
manager jmemnobs.c if you can (ie, if you have enough real or virtual main
memory). If not, at least make sure that max_memory_to_use is set as high as
possible. If the JPEG memory manager has to use a temporary file, you will
probably see a lot of disk traffic and poor performance. (This could be
improved with additional work on the memory manager, but we haven’t gotten
around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all
input processing, including reading the initial markers; that is, you may
wish to call jpeg_consume_input() instead of jpeg_read_header() during
startup. This works, but note that you must check for JPEG_REACHED_SOS and
JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes.
Once the first SOS marker has been reached, you must call
jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange” datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image” datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* “Abbreviated table specification” (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for
the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.
You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++)
    quant_ptr->quantval[i] = Qtable[i];
```

To load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++)
    huff_ptr->bits[i] = counts[i];
for (i = 0; i < 256; i++)
    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

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later...
examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw 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_colors() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*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 framish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don’t get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don’t recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don’t pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
---------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn’t always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that’s been read
will probably be more useful than using the library's value.
Memory management

-----------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 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
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A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORTEXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables.

You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of “short”s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
-------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.
char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also
malloc about 20K-30K of near heap space while executing (and lots of far
heap, but that doesn't count in this calculation). This figure will vary
depending on selected operating mode, and to a lesser extent on image size.
There is also about 5Kb-6Kb of constant data which will be allocated in the
near data segment (about 4Kb of this is the error message table).
Thus you have perhaps 20K available for other modules' static data and near
heap space before you need to go to a larger memory model. The C library's
static data will account for several K of this, but that still leaves a good
deal for your needs. (If you are tight on space, you could reduce the sizes
of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to
Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/libjpeg.txt
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/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcomapi.c
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/*
 * jdmrgext.c
 *
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
*/
This file contains code for merged upsampling/color conversion.

* 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.

* 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

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* arithmetic entropy encoding and decoding routines.
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* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec

* 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

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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S
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/*
 * jdhuff.c
 *
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 * 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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jdhuff.c
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/*
 * jdmainct.c
 *
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmainct.c
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/*
 * jddctmgr.c
 *
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 * 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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jddctmgr.c
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/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
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/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jsimd_i386.c

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/*
 * jcmaster.c
 *
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 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
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 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/simd/jcmaster.c

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/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

---

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* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jsimd_none.c
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/*
* jcparam.c
* 
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* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jcparam.c
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/*
* jdmaster.c
* 
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* 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.
libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

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.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdmaster.c

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/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdpamin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdtrans.c

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;/*
 * jdatadst-tj.c
 *
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 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jdatadst-tj.c

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Package: {___PKGNAME}
Version: {___VERSION}-{___BUILD}
Section: misc
Priority: optional
Architecture: {___ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/release/deb-control.tmpl

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*******************************************************************************
**     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
eyear 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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ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

*******************************************************************************
** Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:
TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo-gcc\64 on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

Un*x

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
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

\[
\text{CPATH}=/opt/libjpeg-turbo/include
\]
and
\[
\text{LIBRARY_PATH}=/opt/libjpeg-turbo/{\text{lib}}
\]

({\text{lib}} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

\[
\text{CPATH}=/c/libjpeg-turbo-gcc[64]/include
\]
and
\[
\text{LIBRARY_PATH}=/c/libjpeg-turbo-gcc[64]/lib
\]

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/{\text{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:

```c
JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */
```

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jctest.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
-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
------------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================
In-Memory Source/Destination Managers
=====================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a
function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**  Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**  Performance Pitfalls
*******************************************************************************
Restart Markers

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

Fast Integer Forward DCT at High Quality Levels

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

/*
 * 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

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*/
*/
*/
*/
* 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 PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRF/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/rdcolmap.c
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/*
* Copyright (C)2011 D. R. Commander. All Rights Reserved.
*
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* modification, are permitted provided that the following conditions are met:
* *
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* - Redistributions in binary form must reproduce the above copyright notice,
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* - Neither the name of the libjpeg-turbo Project nor the names of its
*   contributors may be used to endorse or promote products derived from this
*   software without specific prior written permission.
* *
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* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
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* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
Open Source Used In OnPrem2.1 2.2 16575

*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/tjtransform.java

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*/

* jsimddct.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAj/libjpeg-turbo-1.2.90/jsimddct.h

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*/

* jsimd_arm.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc

* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.

* Based on the stubs from 'jsimd_none.c'

found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJj/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UW7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJj/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
  UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kA/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jcolext.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/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-
UW7FARl/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jcolest.c
No license file was found, but licenses were detected in source scan.

*/
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
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UW7FARl/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kAjl/libjpeg-turbo-1.2.90/jdpostct.c
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*/
* jfdctint.c
*
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*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
  multiplication; this allows a very simple and accurate implementation in
  scaled fixed-point arithmetic, with a minimal number of shifts.
*/

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 *
 * 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.
 */

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/*
 * jcsample.c
 *
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 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is

* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
* 
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
* 
* An excellent reference for image resampling is
* 
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
* 
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pmnconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

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* /opt/cola/permits/1105438051_1608299910.76/0/libjpeg-turbo-1.2.90-5.el7-1.src.rpm-cosi-expand-archive-UWi7FaRf/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-C8ga4kJAj/libjpeg-turbo-1.2.90/jcsample.c
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/**
 * [FactoryBean] that obtains a WebSphere [MBeanServer] reference through WebSphere's proprietary [AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *<p>
 * Exposes the [MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * See the javadocs for WebSphere's
 * and a [AdminServiceFactory](http://bit.ly/UzccDr)
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/remoting/remote/CodebaseAwareObjectInputStream.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/context/support/ApplicationObjectSupport.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/remoting/RemoteConnectFailureException.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/context/access/ContextSingletonBeanFactoryLocator.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/jmx/support/ObjectNameManager.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/jndi/JndiObjectLocator.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/context/validation/AbstractBindingResult.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/validation/BeanPropertyBindingResult.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/jmx/support/RegistrationPolicy.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/validation/validation/BindingErrorProcessor.java
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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/remoting/rmi/RmiInvocationWrapper.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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  jar/ org/ springframework/ jndi/ JndiAccessor.java
* /opt/ cola/ permits/1135953526_1613640921.25/0/ spring-context-4-3-10-release-sources-2-
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jar/org/springframework/context/annotation/Scope.java
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jar/org/springframework/jndi/JndiObjectFactoryBean.java
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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/context/support/RemoteInvocation.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/context/support/ApplicationContext.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/jmx/support/MetricType.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/stereotype/Service.java
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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 programatically
*   before the bean definition is due to be registered (see [@link Condition] for details).
*   
*   <p>The [@code @Conditional] annotation may be used in any of the following ways:
*   <ul>
*   <li>as a type-level annotation on any class directly or indirectly annotated with
*     [@code @Component], including [@link Configuration @Configuration] classes</li>

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* <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>

* <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
*/

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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2.jar/org/springframework/context/annotation/Conditional.java

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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java

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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/scheduling/annotation/Schedules.java
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* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
* /opt/cola/permits/1135953526_1613640921.25/0/spring-context-4-3-10-release-sources-2-jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
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ASM: a very small and fast Java bytecode manipulation framework

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1.1806 terracotta-toolkit-runtime 5.10.0

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3.3. Description of Modifications.

YOU MUST CAUSE ALL COVERED CODE TO WHICH YOU CONTRIBUTE TO CONTAIN A FILE DOCUMENTING THE CHANGES YOU MADE TO CREATE THAT COVERED CODE AND THE DATE OF ANY CHANGE. YOU MUST INCLUDE A PROMINENT STATEMENT THAT THE MODIFICATION IS DERIVED, DIRECTLY OR INDIRECTLY, FROM ORIGINAL CODE PROVIDED BY THE INITIAL DEVELOPER AND INCLUDING THE NAME OF THE INITIAL DEVELOPER IN (A) THE SOURCE CODE, AND (B) IN ANY NOTICE IN AN EXECUTABLE VERSION OR RELATED DOCUMENTATION IN WHICH YOU DESCRIBE THE ORIGIN OR OWNERSHIP OF THE COVERED CODE.

3.4. Intellectual Property Matters

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IF CONTRIBUTOR HAS KNOWLEDGE THAT A LICENSE UNDER A THIRD PARTY’S INTELLECTUAL PROPERTY RIGHTS IS REQUIRED TO EXERCISE THE RIGHTS GRANTED BY SUCH CONTRIBUTOR UNDER SECTIONS 2.1 OR 2.2, CONTRIBUTOR MUST INCLUDE A TEXT FILE WITH THE SOURCE CODE DISTRIBUTION TITLED “LEGAL,” WHICH DESCRIBES THE CLAIM AND THE PARTY MAKING THE CLAIM IN SUFFICIENT DETAIL THAT A RECIPIENT WILL KNOW WHOM TO CONTACT. IF CONTRIBUTOR OBTAINS SUCH KNOWLEDGE AFTER THE MODIFICATION IS MADE AVAILABLE AS DESCRIBED IN SECTION 3.2, CONTRIBUTOR SHALL PROMPTLY MODIFY THE LEGAL FILE IN ALL COPIES CONTRIBUTOR MAKES AVAILABLE THEREAFTER AND SHALL TAKE OTHER STEPS (SUCH AS NOTIFYING APPROPRIATE MAILING LISTS OR NEWSGROUPS) REASONABLY CALCULATED TO INFORM THOSE WHO RECEIVED THE COVERED CODE THAT NEW KNOWLEDGE HAS BEEN OBTAINED.

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(c) Representations.

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YOU MUST DUPLICATE THE NOTICE IN EXHIBIT A IN EACH FILE OF THE SOURCE CODE. IF IT IS NOT POSSIBLE TO PUT SUCH NOTICE IN A PARTICULAR SOURCE CODE FILE DUE TO ITS STRUCTURE, THEN YOU MUST INCLUDE SUCH NOTICE IN A
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1.1811 slf4j 1.7.30

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1.1813 jspapiglassfish 2.1.v20100127

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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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.

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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

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University of Missouri - Rolla Phone: (573) 341-6679
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Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using.

Thus LGPL-2.1 enters to fill this void.

-Mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

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Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
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My apologies for not chiming in in anything resembling a reasonable
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I'd also suggest the LGPL, for the reason you noted above. Alternately,
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GPL would permit applications which were released under version 3 of the
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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.

Cheers,

Nalin
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From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

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Nathan Neulinger is the only one who can actually make said change ...
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); 
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtp020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
1.816 axis-jaxrpc 1.4
1.816.1 Available under license:

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Version 2.0, January 2004
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 * $Id: ElementSelector.java,v 1.6 2000/02/14 15:54:12 plehegar Exp $
 */

Found in path(s):
* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/ElementSelector.java
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/*
* The original version of this interface comes from SAX:
  * http://www.megginson.com/SAX/

* $Id: CSSException.java,v 1.3 2002/06/17 14:09:36 plehegar Exp $ 
*/

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* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/CSSException.java
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*
* $Id: CombinatorCondition.java,v 1.3 2000/03/08 20:55:41 plehegar Exp $
*/

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* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/CombinatorCondition.java
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* $Id: ConditionFactory.java,v 1.2 2000/02/15 02:07:34 plehegar Exp $
*/

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* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/ConditionFactory.java
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*$Id: SelectorList.java,v 1.1 1999/09/26 10:06:45 plehegar Exp $
*/

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* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/SelectorList.java
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*$Id: Locator.java,v 1.1 1999/09/26 09:58:46 plehegar Exp $
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 * $Id: SimpleSelector.java,v 1.2 1999/09/30 16:54:22 plehegar Exp $
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 * $Id: PositionalCondition.java,v 1.4 2000/02/14 15:54:12 plehegar Exp $
 */

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/* $Id: ContentCondition.java,v 1.1 1999/09/26 09:54:37 plehegar Exp $ */

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 *
 * $Id: InputSource.java,v 1.2 1999/09/26 10:09:48 plehegar Exp $
 */

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 * $Id: CharacterDataSelector.java,v 1.3 1999/09/26 10:05:32 plehegar Exp $
 */

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*
* $Id: CSSParseException.java,v 1.3 2000/02/15 02:07:34 plehegar Exp $
*/

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* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/CSSParseException.java
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* $Id: NegativeCondition.java,v 1.2 1999/09/26 10:15:58 plehegar Exp $
*/

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* $Id: Condition.java,v 1.8 2000/02/14 15:54:12 plehegar Exp $
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*
* $Id: AttributeCondition.java,v 1.5 2002/06/17 14:10:09 plehegar Exp $
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* $Id: LexicalUnit.java,v 1.9 2000/03/08 20:55:33 plehegar Exp $
*/

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* /opt/cola/permits/1135936139_1613638474.83/0/sac-1-3-sources-3-jar/org/w3c/css/sac/LexicalUnit.java
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* $Id: DocumentHandler.java,v 1.4 2000/02/16 21:29:35 plehegar Exp $
*/

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1.1819 finger 0.17 52.el7
1.1819.1 Available under license:

MCONFIG
fingernumber
22-Jul-2000:
Document ~/.pgpkey. (Herbert Xu, herbert@gondor.apana.org.au)

18-Dec-1999:
Add support for ~/.nofinger files.

14-Dec-1999:
bsd-finger-0.16 is released.

12-Dec-1999:
Withdrew -R option; finger can figure out on its own if it needs
to emit CRs.
Also, make printing of pts/* ttys work right.

14-Sep-1999:
Rewrote output handling of finger to deal with 8-bit characters
correctly. Also fixed what I think was some uninitialized data
displaying ":0" utmp entries.
Backed out patch 1.15 of finger/util.c because it was completely
wrong. Fixed gecos processing _again_.
Added -R option to finger that causes it to emit CR before every
LF. Changed fingerd to use it. This means fingerd no longer
needs to fork.

1-Aug-1999:
Complete y2k and y2038 audit.

31-Jul-1999:
Redid makefiles/config stuff for new confgen version.

23-Sep-1997:
fingerd should now refuse to run as root and bail if it can't find
"nobody".

22-Sep-1997:
Fix finger to not destroy gethostbyname() results with
getservbyname().

02-Aug-1997:
Fix fingerd to complain if it can't switch from root.

12-Jun-1997:
bsd-finger-0.10 released.

08-Jun-1997:
More adjustments for glibc.

13-May-1997:
Do dynamic column width formatting in short format printout. (HJ Lu)

05-Apr-1997:
Added configure script to generate MCONFg.
glibc fixes from HJ Lu.
Display .pgpkey file in finger (Edward S. Marshall,
emarshal@common.net)
Better utmp handling.

08-Mar-1997:
Split from full NetKit package.
Generated this change log from NetKit's.

07-Mar-1997:
Fixed finger to reject .plans that aren't regular files. (Thomas
Roessler, roessler@sobolev.rhein.de)

01-Feb-1997:
Fixed finger's timezone handling. Now gets daylight time right.

29-Dec-1996
NetKit-0.09 released.
Fix doc bugs in fingerd.
Fingerd accepts -p as equivalent to -L for compatibility with
"fingerd-extlog.tar.gz".
Assorted alpha/glibc patches. (Erik Troan, ewolf@redhat.com)
Assorted bug fixes from Debian. (Peter Tobias,
tobias@et-inf.fho-emden.de)
Hardened programs against DNS h_length spoofing attacks.
Use inet_aton() everywhere instead of inet_addr().
Fixed bug in finger's processing of &'s in full names that probably has
security implications.
Finger doesn't follow symlinks now.

22-Aug-1996
NetKit-B-0.08 released.
fingerd uses fork instead of system for running uptime (with -w flag).
fingerd supports -L flag to run alternate finger client.
(almost) everything now compiles with lots of warnings turned on.
fingerd now accepts a new -u flag to reject "finger @host" queries.
fix bug in finger that prevented matching full names
(fix from James Jones <james@richland.cc.il.us>.)

25-Jul-1996
NetKit-B-0.07A released.

23-Jul-1996
NetKit-B-0.07 released.
Integrated a collection of patches that had been lurking on the net,
including the 256-pty support for telnetd and passive mode ftp.
Major security fixes, including to fingerd, lpr, rlogin, rsh, talkd,
and telnetd. Do *not* use the sliplogin from earlier versions of this
package, either.
Several of the daemons support better logging.
Much of the code builds without libbsd.a or bsd includes.
Massive code cleanup. Almost everything compiles clean with gcc
-Wall now. rusers and rusersd do not; patches to rpcgen to fix
this would be appreciated if anyone feels like it.
New maintainer: David A. Holland, dholland@hcs.harvard.edu

date not known
NetKit-B-0.06 released.
Added a missing argument in a printf to the finger source
code. Phil Edge
"finger -I" prints the standard timezone when it should print the
daylight savings timezone. tzname[0] is standard timezone and
tzname[1] is daylight savings timezone. This patch is from Phil
Edge. He wasn't too sure about this patch, and I haven't looked
into it. Anyone who really knows about this stuff? Look into
lprint.c in the finger source. I changed all "1 - daylight" into
"daylight"... You could also verify all Linux-specific changes
to timezone things. Other parts look also like duplicate work.
(Maybe even wrong...)

date not known
NetKit-B-0.05 released.
Fixed finger/util.c to cope with XDM login entry in utmp (Leonard
Zubkoff)

date not known
NetKit-B-0.04 released.

date not known
NetKit-B-0.03 released.
Fixed fingerd to not use 'getdomainname' to get the FQDN.
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fingerd

# Standard compilation rules (don't use make builtins)

%.o: %.c
$(CC) $(CFLAGS) $< -c

%.o: %.cc
$(CC) $(CFLAGS) $< -c

finger:
  - add option to issue CRs so fingerd doesn't need to fork
  - Some nameservers hose on "", patch finger to work around it

fingerd:
  - rejection of finger forwarding should be optional

1.1820 activemq-mqtt 5.16.3
1.1820.1 Available under license:

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tagere_sta_fw.bin -- 9.48 Hermes I
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1.1832 perl-encode 2.51-7.el7

1.1832.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1152388334_1618226788.2/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-
  dBLLStwn/perl-Encode.spec

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Encode::$_Name_ version 0.1
NAME

Encode::$_Name_ - <describe encoding>

SYNOPSIS

use Encode::$_Name_;  
#<put more words here>

ABSTRACT

<fill this in>

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
test
make install

DEPENDENCIES

This module requires perl version 5.7.3 or later.

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* /opt/cola/permits/1152388334_1618226788.20/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-
dBLLStwn/Encode-2.51.tar.gz-cosi-expand-archive-tzMJVCKR/Encode-2.51/Encode/README.e2x
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=head1 NAME

Encode::Supported -- Encodings supported by Encode

=head1 DESCRIPTION

=head2 Encoding Names

Encoding names are case insensitive. White space in names
is ignored. In addition, an encoding may have aliases.
Each encoding has one "canonical" name. The "canonical"
name is chosen from the names of the encoding by picking
the first in the following sequence (with a few exceptions).
The name used by the Perl community. That includes 'utf8' and 'ascii'. Unlike aliases, canonical names directly reach the method so such frequently used words like 'utf8' don't need to do alias lookups.

The MIME name as defined in IETF RFCs. This includes all "iso-"s.

The name in the IANA registry.

The name used by the organization that defined it.

In case I<de jure> canonical names differ from that of the Encode module, they are always aliased if it ever be implemented. So you can safely tell if a given encoding is implemented or not just by passing the canonical name.

Because of all the alias issues, and because in the general case encodings have state, "Encode" uses an encoding object internally once an operation is in progress.

As of Perl 5.8.0, at least the following encodings are recognized. Note that unless otherwise specified, they are all case insensitive (via alias) and all occurrence of spaces are replaced with '-'. In other words, "ISO 8859 1" and "iso-8859-1" are identical.

Encodings are categorized and implemented in several different modules but you don't have to C<use Encode::XX> to make them available for most cases. Encode.pm will automatically load those modules on demand.

The following encodings are always available.
I<null> and I<ascii-ctrl> are special. "null" fails for all characters so when you set fallback mode to PERLQQ, HTMLCREF or XMLCREF, ALL CHARACTERS will fall back to character references. Ditto for "ascii-ctrl" except for control characters. For fallback modes, see L<Encode>.

=head2 Encode::Unicode -- other Unicode encodings

Unicode coding schemes other than native utf8 are supported by Encode::Unicode, which will be autoloaded on demand.

=head2 Encode::Byte -- Extended ASCII

Encode::Byte implements most single-byte encodings except for Symbols and EBCDIC. The following encodings are based on single-byte encodings implemented as extended ASCII. Most of them map \x80-\xff (upper half) to non-ASCII characters.
Since there are so many, they are presented in table format with languages and corresponding encoding names by vendors. Note that the table is sorted in order of ISO-8859 and the corresponding vendor mappings are slightly different from that of ISO. See L<http://czyborra.com/charsets/iso8859.html> for details.

<table>
<thead>
<tr>
<th>Lang/Regions</th>
<th>ISO/Other Std.</th>
<th>DOS</th>
<th>Windows Macintosh</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. America</td>
<td>(ASCII)</td>
<td>cp437</td>
<td>AdobeStandardEncoding</td>
<td>cp863 (DOSCanadaF)</td>
</tr>
<tr>
<td>W. Europe</td>
<td>iso-8859-1</td>
<td>cp850</td>
<td>cp1252 MacRoman nextstep</td>
<td>hp-roman8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>cp860 (DOSPortuguese)</td>
</tr>
<tr>
<td>Cntrl. Europe</td>
<td>iso-8859-2</td>
<td>cp852</td>
<td>cp1250 MacCentralEurRoman</td>
<td>MacRomanian</td>
</tr>
<tr>
<td>Cntrl. Europe</td>
<td></td>
<td></td>
<td></td>
<td>MacRumanian</td>
</tr>
<tr>
<td>Latin3[1]</td>
<td>iso-8859-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin4[2]</td>
<td>iso-8859-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyrillics</td>
<td>iso-8859-5</td>
<td>cp855</td>
<td>cp1251 MacCyrillic</td>
<td>MacUkrainian</td>
</tr>
<tr>
<td></td>
<td>(See also next section)</td>
<td>cp866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>iso-8859-6</td>
<td>cp864</td>
<td>cp1256 MacArabic</td>
<td>MacFarsi</td>
</tr>
<tr>
<td>Greek</td>
<td>iso-8859-7</td>
<td>cp737</td>
<td>cp1253 MacGreek</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>cp869 (DOSGreek2)</td>
</tr>
<tr>
<td>Hebrew</td>
<td>iso-8859-8</td>
<td>cp862</td>
<td>cp1255 MacHebrew</td>
<td></td>
</tr>
<tr>
<td>Turkish</td>
<td>iso-8859-9</td>
<td>cp857</td>
<td>cp1254 MacTurkish</td>
<td></td>
</tr>
<tr>
<td>Nordics</td>
<td>iso-8859-10</td>
<td>cp861</td>
<td>MacIcelandic</td>
<td>MacSamI</td>
</tr>
<tr>
<td>Thai</td>
<td>iso-8859-11[3]</td>
<td>cp874</td>
<td>MacThai</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(iso-8859-12 is nonexistent. Reserved for Indics?)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baltics</td>
<td>iso-8859-13</td>
<td>cp775</td>
<td>cp1257</td>
<td></td>
</tr>
<tr>
<td>Celtics</td>
<td>iso-8859-14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin10</td>
<td>iso-8859-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vietnamese</td>
<td>viscii</td>
<td>cp1258</td>
<td>MacVietnamese</td>
<td></td>
</tr>
</tbody>
</table>

[1] Esperanto, Maltese, and Turkish. Turkish is now on 8859-9.
[3] TIS 620 + Non-Breaking Space (0xA0 / U+00A0)
[4] Nicknamed Latin0; the Euro sign as well as French and Finnish letters that are missing from 8859-1 were added.

All cp* are also available as ibm-* , ms-* , and windows-* . See also L<http://czyborra.com/charsets/codepages.html>.
Macintosh encodings don't seem to be registered in such entities as IANA. “Canonical” names in Encode are based upon Apple’s Tech Note 1150. See L<http://developer.apple.com/technotes/tn/tn1150.html> for details.

=item KOI8 - De Facto Standard for the Cyrillic world

Though ISO-8859 does have ISO-8859-5, the KOI8 series is far more popular in the Net. L<Encode> comes with the following KOI charsets. For gory details, see L<http://czyborra.com/charsets/cyrillic.html>

<table>
<thead>
<tr>
<th>Charset</th>
<th>Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>koi8-f</td>
<td></td>
<td>RFC1489</td>
</tr>
<tr>
<td>koi8-r</td>
<td>cp878</td>
<td>RFC1489</td>
</tr>
<tr>
<td>koi8-u</td>
<td></td>
<td>RFC2319</td>
</tr>
</tbody>
</table>

=back

=head2 gsm0338 - Hentai Latin 1

GSM0338 is for GSM handsets. Though it shares alphanumerals with ASCII, control character ranges and other parts are mapped very differently, mainly to store Greek characters. There are also escape sequences (starting with 0x1B) to cover e.g. the Euro sign.

This was once handled by L<Encode::Bytes> but because of all those unusual specifications, Encode 2.20 has relocated the support to L<Encode::GSM0338>. See L<Encode::GSM0338> for details.

=over 2

=item gsm0338 support before 2.19

Some special cases like a trailing 0x00 byte or a lone 0x1B byte are not well-defined and decode() will return an empty string for them.

One possible workaround is

```
$gsm =~ s/x00/z/x00/x00/;
$uni = decode("gsm0338", $gsm);
$uni .= "x0A" if $gsm =~ /x1B/z/;
```

Note that the Encode implementation of GSM0338 does not implement the reuse of Latin capital letters as Greek capital letters (for example, the 0x5A is U+005A (LATIN CAPITAL LETTER Z), not U+0396 (GREEK CAPITAL LETTER ZETA)).

The GSM0338 is also covered in Encode::Byte even though it is not
an "extended ASCII" encoding.

=head2 CJK: Chinese, Japanese, Korean (Multibyte)

Note that Vietnamese is listed above. Also read "Encoding vs Charset" below. Also note that these are implemented in distinct modules by countries, due to the size concerns (simplified Chinese is mapped to 'CN', continental China, while traditional Chinese is mapped to 'TW', Taiwan). Please refer to their respective documentation pages.

=over 2

=item Encode::CN -- Continental China

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>(gbk) cp936 [2]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gb12345-raw</td>
<td>{ GB12345 without CES }</td>
<td></td>
</tr>
<tr>
<td>gb2312-raw</td>
<td>{ GB2312 without CES }</td>
<td></td>
</tr>
<tr>
<td>hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-ir-165</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] GB2312 is aliased to this. See L.Microsoft-related naming mess>
[2] gbk is aliased to this. See L.Microsoft-related naming mess>

=item Encode::JP -- Japan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjis cp932 macJapanese</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7bit-jis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp</td>
<td>[RFC1468]</td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-1</td>
<td>[RFC2237]</td>
<td></td>
</tr>
<tr>
<td>jis0201-raw</td>
<td>{ JIS X 0201 (roman + halfwidth kana) without CES }</td>
<td></td>
</tr>
<tr>
<td>jis0208-raw</td>
<td>{ JIS X 0208 (Kanji + fullwidth kana) without CES }</td>
<td></td>
</tr>
<tr>
<td>jis0212-raw</td>
<td>{ JIS X 0212 (Extended Kanji) without CES }</td>
<td></td>
</tr>
</tbody>
</table>

=item Encode::KR -- Korea

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-kr</td>
<td>MacKorean</td>
<td>[RFC1557]</td>
</tr>
</tbody>
</table>
cp949 [1]
iso-2022-kr [RFC1557]
ksc5601-raw { KSC5601 without CES }

[1] ks_c_5601-1987, (x-)?windows-949, and uhc are aliased to this. See below.

=item Encode::TW -- Taiwan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5-eten</td>
<td>cp950</td>
<td>MacChineseTrad (big5 aliased to big5-eten)</td>
</tr>
<tr>
<td>big5-hkscs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=item Encode::HanExtra -- More Chinese via CPAN

Due to the size concerns, additional Chinese encodings below are distributed separately on CPAN, under the name Encode::HanExtra.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5ext</td>
<td></td>
<td>CMEX's Big5e Extension</td>
</tr>
<tr>
<td>big5plus</td>
<td></td>
<td>CMEX's Big5+ Extension</td>
</tr>
<tr>
<td>cccii</td>
<td></td>
<td>Chinese Character Code for Information Interchange</td>
</tr>
<tr>
<td>euc-tw</td>
<td></td>
<td>EUC (Extended Unix Character)</td>
</tr>
<tr>
<td>gb18030</td>
<td></td>
<td>GBK with Traditional Characters</td>
</tr>
</tbody>
</table>

=item Encode::JIS2K -- JIS X 0213 encodings via CPAN

Due to size concerns, additional Japanese encodings below are distributed separately on CPAN, under the name Encode::JIS2K.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jisx0213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjisx0123</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-1-raw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-2-raw</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=back

=head2 Miscellaneous encodings
=over 2

=item Encode::EBCDIC

See L<perlebcdic> for details.

----------------------------------------------------------------
cp37
cp500
cp875
cp1026
cp1047
posix-bc
----------------------------------------------------------------

=item Encode::Symbols

For symbols and dingbats.

----------------------------------------------------------------
symbol
dingbats
MacDingbats
AdobeZdingbat
AdobeSymbol
----------------------------------------------------------------

=item Encode::MIME::Header

Strictly speaking, MIME header encoding documented in RFC 2047 is more of encapsulation than encoding. However, their support in modern world is imperative so they are supported.

----------------------------------------------------------------
MIME-Header [RFC2047]
MIME-B [RFC2047]
MIME-Q [RFC2047]
----------------------------------------------------------------

=item Encode::Guess

This one is not a name of encoding but a utility that lets you pick up the most appropriate encoding for a data out of given I<suspects>. See L<Encode::Guess> for details.

=back
Unsupported encodings

The following encodings are not supported as yet; some because they are rarely used, some because of technical difficulties. They may be supported by external modules via CPAN in the future, however.


Not very popular yet. Needs Unicode Database or equivalent to implement encode() (because it includes JIS X 0208/0212, KSC5601, and GB2312 simultaneously, whose code points in Unicode overlap. So you need to lookup the database to determine to what character set a given Unicode character should belong).

ISO-2022-CN [RFC1922]

Not very popular. Needs CNS 11643-1 and -2 which are not available in this module. CNS 11643 is supported (via euc-tw) in Encode::HanExtra. Autrijus Tang may add support for this encoding in his module in future.

Various HP-UX encodings

The following are unsupported due to the lack of mapping data.

'8' - arabic8, greek8, hebrew8, kana8, thai8, and turkish8
'15' - japanese15, korean15, and roi15

Cyrillic encoding ISO-IR-111

Anton Tagunov doubts its usefulness.

ISO-8859-8-1 [Hebrew]

None of the Encode team knows Hebrew enough (ISO-8859-8, cp1255 and MacHebrew are supported because and just because there were mappings available at L-http://www.unicode.org/>. Contributions welcome.

ISIRI 3342, Iran System, ISIRI 2900 [Farsi]

Ditto.

Thai encoding TCVN

Ditto.

Vietnamese encodings VPS
Though Jungshik Shin has reported that Mozilla supports this encoding, it was too late before 5.8.0 for us to add it. In the future, it may be available via a separate module. See L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf>
and L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.ut>
if you are interested in helping us.

=item Various Mac encodings

The following are unsupported due to the lack of mapping data.

MacArmenian, MacBengali, MacBurmese, MacEthiopic
MacExtArabic, MacGeorgian, MacKannada, MacKhmer
MacLaotian, MacMalayalam, MacMongolian, MacOriya
MacSinhalese, MacTamil, MacTelugu, MacTibetan
MacVietnamese

The rest which are already available are based upon the vendor mappings at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>.

=item (Mac) Indic encodings

The maps for the following are available at L<http://www.unicode.org/> but remain unsupported because those encodings need an algorithmical approach, currently unsupported by F<enc2xs>:

MacDevanagari
MacGurmukhi
MacGujarati

For details, please see C<Unicode mapping issues and notes:> at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT>.

I believe this issue is prevalent not only for Mac Indics but also in other Indic encodings, but the above were the only Indic encodings maps that I could find at L<http://www.unicode.org/>.

=back

=head1 Encoding vs. Charset -- terminology

We are used to using the term (character) I<encoding> and I<character set> interchangeably. But just as confusing the terms byte and character is dangerous and the terms should be differentiated when needed, we need to differentiate I<encoding> and I<character set>.
To understand that, here is a description of how we make computers grok our characters.

First we start with which characters to include. We call this collection of characters a *character repertoire*.

Then we have to give each character a unique ID so your computer can tell the difference between ‘a’ and ‘A’. This itemized character repertoire is now a *character set*.

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a *coded character set* (CCS) or *raw character encoding*. ASCII is used this way for most cases.

But in many cases, especially multi-byte CJK encodings, you have to tweak a little more. Your network connection may not accept any data with the Most Significant Bit set, and your computer may not be able to tell if a given byte is a whole character or just half of it. So you have to *encode* the character set to use it.

A *character encoding scheme* (CES) determines how to encode a given character set, or a set of multiple character sets. 7bit ISO-2022 is an example of a CES. You switch between character sets via *escape sequences*.

Technically, or mathematically, speaking, a character set encoded in such a CES that maps character by character may form a CCS. EUC is such an example. The CES of EUC is as follows:

Map ASCII unchanged.
Map such a character set that consists of 94 or 96 powered by N members by adding 0x80 to each byte.

You can also use 0x8e and 0x8f to indicate that the following sequence of characters belongs to yet another character set. To each following byte is added the value 0x80.

By carefully looking at the encoded byte sequence, you can find that the byte sequence conforms a unique number. In that sense, EUC is a CCS generated by a CES above from up to four CCS (complicated?). UTF-8 falls into this category. See L<perlUnicode/UTF-8> to find out how UTF-8 maps Unicode to a byte sequence.

You may also have found out by now why 7bit ISO-2022 cannot comprise a CCS. If you look at a byte sequence \x21\x21, you can't tell if it is two '!'s or IDEOGRAPHIC SPACE. EUC maps the latter to \xA1\xA1 so you have no trouble differentiating between "!!". and S<" ">.

Encoding Classification (by Anton Tagunov and Dan Kogai)

This section tries to classify the supported encodings by their applicability for information exchange over the Internet and to choose the most suitable aliases to name them in the context of such communication.

To (en|de)code encodings marked by C<(**)> you need C<Encode::HanExtra>, available from CPAN.

Encoding names


are registered with IANA as preferred MIME names and may be used over the Internet.
C<Shift_JIS> has been officialized by JIS X 0208:1997.
L<Microsoft-related naming mess> gives details.

C<GB2312> is the IANA name for C<EUC-CN>.
See L<Microsoft-related naming mess> for details.

C<GB_2312-80> I<raw> encoding is available as C<gb2312-raw>
with Encode. See L<Encode::CN> for details.

EUC-CN
KOI8-U [RFC2319]

have not been registered with IANA (as of March 2002) but
seem to be supported by major web browsers.
The IANA name for C<EUC-CN> is C<GB2312>.

KS_C_5601-1987

is heavily misused.
See L<Microsoft-related naming mess> for details.

C<KS_C_5601-1987> I<raw> encoding is available as C<kcs5601-raw>
with Encode. See L<Encode::KR> for details.

UTF-16 UTF-16BE UTF-16LE

are IANA-registered C<charset>s. See [RFC 2781] for details.
Jungshik Shin reports that UTF-16 with a BOM is well accepted
by MS IE 5/6 and NS 4/6. Beware however that

=over 2
=item *

C<UTF-16> support in any software you're going to be
using/interoperating with has probably been less tested
then C<UTF-8> support

=item *

C<UTF-8> coded data seamlessly passes traditional
command piping (C<cat>, C<more>, etc.) while C<UTF-16> coded
data is likely to cause confusion (with its zero bytes,
for example)

=item *
it is beyond the power of words to describe the way HTML browsers encode non-C<ASCII> form data. To get a general impression, visit L<http://www.alanflavell.org.uk/charset/form-i18n.html>. While encoding of form data has stabilized for C<UTF-8> encoded pages (at least IE 5/6, NS 6, and Opera 6 behave consistently), be sure to expect fun (and cross-browser discrepancies) with C<UTF-16> encoded pages!

=back

The rule of thumb is to use C<UTF-8> unless you know what you're doing and unless you really benefit from using C<UTF-16>.

ISO-IR-165 [RFC1345]
VISCII
GB 12345
GB 18030 (**) (see links below)
EUC-TW (**) are totally valid encodings but not registered at IANA. The names under which they are listed here are probably the most widely-known names for these encodings and are recommended names.

BIG5PLUS (**) is a proprietary name.

=head2 Microsoft-related naming mess

Microsoft products misuse the following names:

=over 2

=item KS_C_5601-1987

Microsoft extension to C<EUC-KR>.

Proper names: C<CP949>, C<UHC>, C<x-windows-949> (as used by Mozilla).

See L<http://lists.w3.org/Archives/Public/ietf-charsets/2001AprJun/0033.html> for details.

Encode aliases C<KS_C_5601-1987> to C<cp949> to reflect this common misusage. L<Raw> C<KS_C_5601-1987> encoding is available as C<kcs5601-raw>.

See L<Encode::KR> for details.
=item GB2312

Microsoft extension to C<EUC-CN>.

Proper names: C<CP936>, C<GBK>.

C<GB2312> has been registered in the C<EUC-CN> meaning at IANA. This has partially repaired the situation: Microsoft's C<GB2312> has become a superset of the official C<GB2312>.

Encode aliases C<GB2312> to C<euc-cn> in full agreement with IANA registration. C<cp936> is supported separately.

See L<Encode::CN> for details.

=back

=item Big5

Microsoft extension to C<Big5>.

Proper name: C<CP950>.

Encode separately supports C<Big5> and C<cp950>.

=back

=item Shift_JIS

Microsoft's understanding of C<Shift_JIS>.

JIS has not endorsed the full Microsoft standard however. The official C<Shift_JIS> includes only JIS X 0201 and JIS X 0208 character sets, while Microsoft has always used C<Shift_JIS> to encode a wider character repertoire. See C<IANA> registration for C<Windows-31J>.

As a historical predecessor, Microsoft's variant probably has more rights for the name, though it may be objected that Microsoft shouldn't have used JIS as part of the name in the first place.

Unambiguous name: C<CP932>. C<IANA> name (also used by Mozilla, and provided as an alias by Encode): C<Windows-31J>.

Encode separately supports C<Shift_JIS> and C<cp932>.

=back

=head1 Glossary
=item character repertoire

A collection of unique characters. A character set in the strictest sense. At this stage, characters are not numbered.

=item coded character set (CCS)

A character set that is mapped in a way computers can use directly. Many character encodings, including EUC, fall in this category.

=item character encoding scheme (CES)

An algorithm to map a character set to a byte sequence. You don't have to be able to tell which character set a given byte sequence belongs. 7-bit ISO-2022 is a CES but it cannot be a CCS. EUC is an example of being both a CCS and CES.

=item charset (in MIME context)

has long been used in the meaning of C<encoding>, CES.

While the word combination C<character set> has lost this meaning in MIME context since [RFC 2130], the C<charset> abbreviation has retained it. This is how [RFC 2277] and [RFC 2278] bless C<charset>:

This document uses the term "charset" to mean a set of rules for mapping from a sequence of octets to a sequence of characters, such as the combination of a coded character set and a character encoding scheme; this is also what is used as an identifier in MIME "charset=" parameters, and registered in the IANA charset registry ... (Note that this is NOT a term used by other standards bodies, such as ISO). [RFC 2277]

=item EUC


=item ISO-2022

A CES that was carefully designed to coexist with ASCII. There are a 7 bit version and an 8 bit version.

The 7 bit version switches character set via escape sequence so it cannot form a CCS. Since this is more difficult to handle in programs than the 8 bit version, the 7 bit version is not very popular except for
iso-2022-jp, the de facto standard CES for e-mails.

The 8 bit version can form a CCS. EUC and ISO-8859 are two examples thereof. Pre-5.6 perl could use them as string literals.

=item UCS

Short for Universal Character Set. When you say just UCS, it means Unicode.

=item UCS-2

ISO/IEC 10646 encoding form: Universal Character Set coded in two octets.

=item Unicode

A character set that aims to include all character repertoires of the world. Many character sets in various national as well as industrial standards have become, in a way, just subsets of Unicode.

=item UTF

Short for Unicode Transformation Format. Determines how to map a Unicode character into a byte sequence.

=item UTF-16

A UTF in 16-bit encoding. Can either be in big endian or little endian. The big endian version is called UTF-16BE (equal to UCS-2 + surrogate support) and the little endian version is called UTF-16LE.

=head1 See Also

Encode, Encode::Byte, Encode::CN, Encode::JP, Encode::KR, Encode::TW, Encode::EBCDIC, Encode::Symbol, Encode::MIME::Header, Encode::Guess

=head1 References

=over 2

=item ECMA
European Computer Manufacturers Association
L<http://www.ecma.ch>

=over 2

=item ECMA-035 (eq C<ISO-2022>)

L<http://www.ecma.ch/ecma1/STAND/ECMA-035.HTM>

The specification of ISO-2022 is available from the link above.

=back

=item IANA

Internet Assigned Numbers Authority
L<http://www.iana.org/>=over 2

=item Assigned Charset Names by IANA

L<http://www.iana.org/assignments/character-sets>

Most of the C<canonical names> in Encode derive from this list
so you can directly apply the string you have extracted from MIME
header of mails and web pages.

=back

=item ISO

International Organization for Standardization
L<http://www.iso.ch/>

=item RFC

Request For Comments -- need I say more?
L<http://www.faqs.org/rfcs/>

=item UC

Unicode Consortium
L<http://www.unicode.org/>

=over 2
=item Unicode Glossary

L<http://www.unicode.org/glossary/>

The glossary of this document is based upon this site.

=back

=back

=head2 Other Notable Sites

=over 2

=item czyborra.com

L<http://czyborra.com/>

Contains a lot of useful information, especially gory details of ISO vs. vendor mappings.

=item CJK.inf

L<http://examples.oreilly.com/cjkinfo/doc/cjk.inf>

Somewhat obsolete (last update in 1996), but still useful. Also try


You will find brief info on C<EUC-CN>, C<GBK> and mostly on C<GB 18030>.

=item Jungshik Shin's Hangul FAQ

L<http://jshin.net/faq>

And especially its subject 8.

L<http://jshin.net/faq/qa8.html>

A comprehensive overview of the Korean (C<KS *>) standards.

=item debian.org: "Introduction to i18n"

A brief description for most of the mentioned CJK encodings is contained in


=back
=head2 Offline sources

=over 2

=item C</CJKV Information Processing> by Ken Lunde

CJKV Information Processing

The modern successor of C</CJK.inf>.

Features a comprehensive coverage of CJKV character sets and encodings along with many other issues faced by anyone trying to better support CJKV languages/scripts in all the areas of information processing.

To purchase this book, visit
L<http://oreilly.com/catalog/9780596514471/> or your favourite bookstore.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);

$characters = decode('UTF-8', $octets, Encode::FB_CROAK);

$octets = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2
The `Encode` module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of characters.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by `ord($S)` is the Unicode codepoint for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see `perlebcdic`.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process 'sequences of bytes''. This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the how. `perlunitut` and `perlunifaq` explain the why.

=head2 TERMINOLOGY

=head3 character
A character in the range 0 .. 2**32-1 (or more); what Perl’s strings are made of.

=head3 byte

A character in the range 0..255; a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

$octets  = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl’s internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl’s internal format into ISO-8859-1, also known as Latin1:

$octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>, then $octets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar value I<OCTETS>, assumed to be a sequence of octets in I<ENCODING>, into
Perl's internal form. The returns the resulting string. As with encode(), I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:

$string = decode("iso-8859-1", $octets);

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)> then $string I<might not be equal to> $octets. Though both contain the same data, the UTF8 flag for $string is on unless $octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)

Returns the I<encoding object> corresponding to I<ENCODING>. Returns C<undef> if no matching I<ENCODING> is found. The returned object is what does the actual encoding or decoding.

$utf8 = decode($name, $bytes);

is in fact

$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};

with more error checking.

You can therefore save time by reusing this object as follows:

    my $enc = find_encoding("iso-8859-1");
    while(<>) {
        my $utf8 = $enc->decode($_);
        ... # now do something with $utf8;
    }

Besides L</decode> and L</encode>, other methods are available as well. For instance, C<name()> returns the canonical
name of the encoding object.

    find_encoding("latin1")->{'name'}; # iso-8859-1

See L<Encode::Encoding> for details.

=head3 from_to

[$length =] from_to($octets, FROM_ENC, TO_ENC [, CHECK])

Converts I<in-place> data between two encodings. The data in $octets must be encoded as octets and I<not> as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

    from_to($octets, "iso-8859-1", "cp1250");

and to convert it back:

    from_to($octets, "cp1250", "iso-8859-1");

Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

    from_to($data, "iso-8859-1", "utf8"); #1
    $data = decode("iso-8859-1", $data);    #2

Both #1 and #2 make $data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

    $data = encode("utf8", decode("iso-8859-1", $data));

See L<"The UTF8 flag"> below.

Also note that:

    from_to($octets, $from, $to, $check);

is equivalent to

    $octets = encode($to, decode($from, $octets), $check);

Yes, it does I<not> respect the $check during decoding.  It is
deliberately done that way. If you need minute control, use C<decode>
followed by C<encode> as follows:

```perl
$octets = encode($to, decode($from, $octets, $check_from), $check_to);
```

=head3 encode_utf8

$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>. The characters in
$string are encoded in Perl's internal format, and the result is returned
as a sequence of octets. Because all possible characters in Perl have a
(loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>. The sequence of octets represented by $octets is decoded
from UTF-8 into a sequence of logical characters. Because not all sequences of octets are valid UTF-8,
it is quite possible for this function to fail.
For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already
been loaded. To get a list of all available encodings including those that
have not yet been loaded, say:

```perl
@all_encodings = Encode->encodings(":all");
```

Or you can give the name of a specific module:

```perl
@with_jp = Encode->encodings("Encode::JP");
```

When "C<::>" is not in the name, "C<Encode::>" is assumed.

@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package,
see L<Encode::Supported>.

=head2 Defining Aliases
To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<resolve_alias()>, which returns the canonical name thereof. For example:

Enc\::\:resolve_alias("latin1") eq "iso-8859-1" # true
Enc\::\:resolve_alias("iso-8859-12") # false; nonexistent
Enc\::\:resolve_alias($name) eq $name # true if $name is canonical

C<resolve_alias()> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve_alias)>.

See L<Encode::Alias> for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with IANA Character Set Registry, commonly seen as C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime_name()> is therefore added.

use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name; # utf-8-strict
warn $enc->mime_name; # UTF-8

See also: L<Encode::Encoding>

=head1 Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a C<PerlIO> layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:

### Version 1 via PerlIO
open(INPUT, "< :encoding(shiftjis)", $infile)
|| die "Can't open < $infile for reading: $!";
open(OUTPUT, ">:encoding(euc-jp)", $outfile)
|| die "Can't open > $output for writing: $!";
while (<INPUT>) {
    # auto decodes $_
    print OUTPUT;  # auto encodes $
}
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

### Version 2 via from_to()
open(INPUT, "< :raw", $infile)
|| die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw", $outfile)
|| die "Can't open > $output for writing: $!";
while (<INPUT>) {
    from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
    print OUTPUT;  # emit raw (but properly encoded) data
}
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

In the first version above, you let the appropriate encoding layer
handle the conversion.  In the second, you explicitly translate
from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy.  You can check
to see whether your encoding is supported by C<PerlIO> by invoking the
C<perlio_ok> method on it:

    Encode::perlio_ok("hz");             # false
    find_encoding("euc-cn")->perlio_ok;  # true wherever PerlIO is available

use Encode qw(perlio_ok);            # imported upon request
perlio_ok("euc-jp")

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy
except for C<hz> and C<ISO-2022-kr>.  For the gory details, see
L<Encode::Encoding> and L<Encode::PerlIO>.

=head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when
encountering malformed data.  Without I<CHECK>, C<Encode::FB_DEFAULT>
(= 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>;
see below.
B<NOTE:> Not all encodings support this feature. Some encodings ignore the I<CHECK> argument. For example, I<Encode::Unicode> ignores I<CHECK> and it always croaks on error.

=head2 List of I<CHECK> values

=head3 FB_DEFAULT

I<CHECK> = Encode::FB_DEFAULT ( == 0)

If I<CHECK> is 0, encoding and decoding replace any malformed character with a I<substitution character>. When you encode, I<SUBCHAR> is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C<"utf8"> is given.

=head3 FB_CROAK

I<CHECK> = Encode::FB_CROAK ( == 1)

If I<CHECK> is 1, methods immediately die with an error message. Therefore, when I<CHECK> is 1, you should trap exceptions with C<eval{}>, unless you really want to let it C<die>.

=head3 FB_QUIET

I<CHECK> = Encode::FB_QUIET

If I<CHECK> is set to C<Encode::FB_QUIET>, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

```
my($buffer, $string) = ("", ");
while (read($fh, $buffer, 256, length($buffer))) {
  $string .= decode($encoding, $buffer, Encode::FB_QUIET);
  # $buffer now contains the unprocessed partial character
}
```

=head3 FB_WARN

I<CHECK> = Encode::FB_WARN

If I<CHECK> is set to C<Encode::FB_WARN>, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

```
my($buffer, $string) = ("", ");
while (read($fh, $buffer, 256, length($buffer))) {
  $string .= decode($encoding, $buffer, Encode::FB_QUIET);
  # $buffer now contains the unprocessed partial character
}
```
This is the same as \texttt{FB\_QUIET} above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.

\begin{verbatim}
=head3 FB\_PERLQQ FB\_HTMLCREF FB\_XMLCREF
=over 2
=item perlqq mode (I<\texttt{CHECK}> = \texttt{Encode::FB\_PERLQQ})
=item HTML charref mode (I<\texttt{CHECK}> = \texttt{Encode::FB\_HTMLCREF})
=item XML charref mode (I<\texttt{CHECK}> = \texttt{Encode::FB\_XMLCREF})
=back

For encodings that are implemented by the \texttt{Encode::XS} module, \texttt{CHECK} \texttt{==}> \texttt{Encode::FB\_PERLQQ} puts \texttt{encode} and \texttt{decode} into \texttt{perlqq} fallback mode.

When you decode, \texttt{\x{I<HHHH>}} is inserted for a malformed character, where \texttt{I<HHH> is the hex representation of the octet that could not be decoded to utf8}. When you encode, \texttt{\x\{I<HHHH>\}} will be inserted, where \texttt{I<HHHH> is the Unicode code point (in any number of hex digits) of the character that cannot be found in the character repertoire of the encoding}.

The HTML/XML character reference modes are about the same. In place of \texttt{\x{I<HHHH>}}, HTML uses \texttt{\&\#I<NNN>;} where \texttt{I<NNN> is a decimal number}, and XML uses \texttt{\&\#xI<HHHH>;} where \texttt{I<HHHH> is the hexadecimal number}.

In \texttt{Encode} 2.10 or later, \texttt{LEAVE\_SRC} is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the \texttt{FB\_I<XXX>>} constants are laid out. You can import the \texttt{FB\_I<XXX>>} constants via \texttt{use \texttt{Encode qw(:fallbacks)}}, and you can import the generic bitmask constants via \texttt{use \texttt{Encode qw(:fallback\_all)}}.

\begin{verbatim}
FB\_DEFAULT FB\_CROAK FB\_QUIET FB\_WARN FB\_PERLQQ
DIE\_ON\_ERR  0x0001 X
WARN\_ON\_ERR  0x0002 X
RETURN\_ON\_ERR 0x0004 X X
LEAVE\_SRC  0x0008 X
PERLQQ  0x0100 X
HTMLCREF  0x0200
XMLCREF  0x0400

=head3 LEAVE\_SRC
\end{verbatim}
If the C<Encode::LEAVE_SRC> bit is not set but C<CHECK> is set, then the source string to encode() or decode() will be overwritten in place. If you’re not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK

As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

```perl
$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });
```

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C<\x{I<XXXX>>}.  

=head1 Defining Encodings

To define a new encoding, use:

```perl
use Encode qw(define_encoding);
define_encoding($object, CANONICAL_NAME [, alias...]);
```

I<CANONICAL_NAME> will be associated with I<$object>.  The object should provide the interface described in L<Encode::Encoding>. If more than two arguments are provided, additional arguments are considered aliases for I<$object>.  

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new
character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

=back

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

=over 2

=item *

When you I<encode>, the resulting UTF8 flag is always B<off>.

=item *

When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

When $octet is... The UTF8 flag in $utf8 is

---------------------------------------------------------------
In ASCII only (or EBCDIC only) OFF
In ISO-8859-1 ON
In any other Encoding ON

---------------------------------------------------------------

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason
you cannot (or rather, you don't have to) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=head2 Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

=head3 is_utf8

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the STRING. If CHECK is true, also checks whether STRING contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.

=head3 _utf8_on

_utf8_on(STRING)

[INTERNAL] Turns the STRING's internal UTF8 flag on. The STRING is not checked for containing only well-formed UTF-8. Do not use this unless you know with absolute certainty that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don't treat the return value as indicating success or failure), or undef if STRING is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head3 _utf8_off

_utf8_off(STRING)

[INTERNAL] Turns the STRING's internal UTF8 flag off. Do not use frivolously. Returns the previous state of the UTF8 flag, or undef if STRING is not a string. Do not treat the return value as indicative of success or failure, because that isn't what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head1 UTF-8 vs. utf8 vs. UTF8
....We now view strings not as sequences of bytes, but as sequences of numbers in the range 0..2**32-1 (or in the case of 64-bit computers, 0..2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0..0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFDD0..0xFDEF, the last two code points in I<any> plane (0xI<XX>_FFFE and 0xI<XX>_FFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being perl's unrestricted utf8 encoding, 
: but "UTF-8" is the name of the standard and should give the 
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B<"UTF-8"> means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B<"utf8"> means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C<"UTF-8"> and C<"utf8">.

    encode("utf8", "\x{FFFF_FFFF}", 1); # okay
    encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks

In the C<Encode> module, C<"UTF-8"> is actually a canonical name for C<"utf-8-strict">. That hyphen between the C<"UTF"> and the C<"8"> is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:
Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>, L<Encode::Supported>, L<Encode::PerlIO>, L<encoding>, L<perlebcdic>, L<perlfunc/open>, L<perlunicode>, L<perluniano>, L<perlunif>, L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>

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This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai I<< <dankogai@cpan.org> >>. See AUTHORS for a full list of people involved. For any questions, send mail to I<< <perl-unicode@perl.org> >> so that we can all share.

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No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: {}
version: 2.51

Found in path(s):
* /opt/cola/permits/1152388334_1618226788.2/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-
  d BLLstwn/Encode-2.51.tar.gz-cosi-expand-archive-tzMJVCKR/Encode-2.51/META.yml

1.1833 jersey-guava 2.6
1.1833.1 Available under license:

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1.1840 yum-utils 1.1.31-45.el7

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Version 3, 29 June 2007

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1.1843 gson 2.2.4

1.1844 commons-fileupload 1.3.3

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1.1845 gvfs 1.36.2-4.el7

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1.1847 activemq-http 5.12.0

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1.1856 coreutils 8.22-24.0.1.el7

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* /opt/cola/permits/1137268691_1614043332.25/0/spring-tx-4-3-30-release-sources-1-jar/org/springframework/jca/cci/support/TransactionSynchronizationAdapter.java
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1.1858 gnupg 2.0.22-4.el7
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1.1867 kmod 20-28.0.3.el7

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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

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# 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) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB)))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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1.1879 llvm-private 7.0.1 1.el7

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```c
; RUN: llc %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s 
; Test that early if conversion produces LOCR with operands of the right 
; register classes.

define void @autogen_SD4739(i8*) {
 ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register 
BB:
 %L34 = load i8, i8* %0 
%Cmp56 = icmp sgt i8 undef, %L34 
br label %CF246 

CF246: ; preds = %CF246, %BB 
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef 
br i1 undef, label %CF246, label %CF248 

CF248: ; preds = %CF248, %CF248 
store i8 %SI163, i8* %0 
br label %CF248 
}

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 */

; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; CHECK-LABEL: test_sitofp_fixed:

    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

    ; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
declare <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject <NSObject> {

@end
@interface NSString : NSObject
@end

void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}

static NSString *_logProcessPrefix = 0;

void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@end

@interface NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix;
@end

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function;
@end

void foo(void)
{
    // GCC currently allows this (it has some fially new support for covariant return types and contravariant argument types).
    // Since registerFunc: expects a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc];  // expected-warning{{incompatible pointer types sending 'NSObject *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

@end

@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey;
@end

@dynamic ForwarClass;

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {
    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}
}
id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}

return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwarClass *'}}
}

hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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// RUN: %clang_analyze_cc1 -analyzer-checker=core,unix.cstring.NullArg,alpha.unix.cstring,debug.ExprInspection
               -analyzer-store=region -verify %s

#define NULL ((void *)0)

typedef __typeof(sizeof(int)) size_t;
size_t strlcpy(char *dst, const char *src, size_t n);
size_t strlcat(char *dst, const char *src, size_t n);
void clang_analyzer_eval(int);

void f1() {
    char overlap[] = "123456789";
    strlcpy(overlap, overlap + 1, 3); // expected-warning{{Arguments must not be overlapping buffers}}
}
void f2() {
    char buf[5];
    strlcpy(buf, "abcd", sizeof(buf)); // expected-no-warning
    strlcat(buf, "efgh", sizeof(buf)); // expected-warning{{Size argument is greater than the free space in the destination buffer}}
}

void f3() {
    char dst[2];
    const char *src = "abdef";
    strlcpy(dst, src, 5); // expected-warning{{Size argument is greater than the length of the destination buffer}}
}

void f4() {
    strlcpy(NULL, "abcdef", 6); // expected-warning{{Null pointer argument in call to string copy function}}
}

void f5() {
    strlcat(NULL, "abcdef", 6); // expected-warning{{Null pointer argument in call to string copy function}}
}

void f6() {
    char buf[8];
    strlcpy(buf, "abc", 3);
    size_t len = strlcat(buf, "defg", 4);
    clang_analyzer_eval(len == 7); // expected-warning{{TRUE}}
}

int f7() {
    char buf[8];
    return strlcpy(buf, "1234567", 0); // no-crash
}

LICENSE
-------
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }
define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

  exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

  while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Version 2.1, February 1999

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<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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<tbody>
<tr>
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<td>LLVM System Interface Library</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    ; CHECK-LABEL: TestSelect:
    ; CHECK movaps 16(%rsp), %xmm1
    ; CHECK-NEXT callq __subtf3
    ; CHECK-NEXT testl %ebx, %ebx
    ; CHECK-NEXT jg .LBB0_2
    ; CHECK-NEXT # %bb.1:
    ; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
    ; CHECK-NEXT .LBB0_2:
    ; CHECK-NEXT addq $32, %rsp
    ; CHECK-NEXT popq %rbx
    ; CHECK-NEXT retq
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
    ; CHECK-LABEL: TestFabs:
    ; CHECK andps .LCPI1_0(%rip), %xmm0
    ; CHECK-NEXT retq
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    ; CHECK-LABEL: TestCopysign:
    ; CHECK andps .LCPI2_1(%rip), %xmm0
    ; CHECK-NEXT orps %xmm1, %xmm0
    ; CHECK-NEXT retq
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    ; CHECK-LABEL: TestFneg:
    ; CHECK movaps %xmm0, %xmm1
    ; CHECK-NEXT callq __multf3
    ; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
    ; CHECK-NEXT popq %rax
    ; CHECK-NEXT retq
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000000000000000000000, %mul
    ret fp128 %res
}
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import org.apache.bcel.Constants;
import org.apache.bcel.classfile.*;
import java.util.HashMap;

/**
 * This class is used to build up a constant pool. The user adds constants via `addXXX' methods, `addString', `addClass', etc.. These methods return an index into the constant pool. Finally, `getFinalConstantPool()' returns the constant pool built up. Intermediate versions of the constant pool can be obtained with `getConstantPool()'. A constant pool has capacity for Constants.MAX_SHORT entries. Note that the first (0) is used by the JVM and that Double and Long constants need two slots.
 *
 * @version $Id: ConstantPoolGen.java,v 1.3 2002/07/11 19:39:04 mdahm Exp $
 * @author <A HREF="mailto:markus.dahm@berlin.de">M. Dahm</A>
 */

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public class ConstantPoolGen implements java.io.Serializable {
    protected int size = 1024; // Initial size, sufficient in most cases
    protected Constant[] constants = new Constant[size];
    protected int index = 1; // First entry (0) used by JVM

    private static final String METHODREF_DELIM = "::";
    private static final String IMETHODREF_DELIM = "#";
    private static final String FIELDREF_DELIM = "&";
    private static final String NAT_DELIM = "%";

    private static class Index implements java.io.Serializable {
        int index;
        Index(int i) { index = i; }
    }

    /**
     * Initialize with given array of constants.
     *
     * @param c array of given constants, new ones will be appended
     */
    public ConstantPoolGen(Constant[] cs) {
        if(cs.length > size) {
            size = cs.length;
            constants = new Constant[size];
        }
        System.arraycopy(cs, 0, constants, 0, cs.length);
        if(cs.length > 0)
            index = cs.length;
        for(int i=1; i < index; i++) {
            Constant c = constants[i];
            if(c instanceof ConstantString) {
                ConstantString s = (ConstantString)c;
                ConstantUtf8 u8 = (ConstantUtf8)constants[s.getStringIndex()];
                string_table.put(u8.getBytes(), new Index(i));
            } else if(c instanceof ConstantClass) {
                ConstantClass s = (ConstantClass)c;
                ConstantUtf8 u8 = (ConstantUtf8)constants[s.getNameIndex()];
                class_table.put(u8.getBytes(), new Index(i));
            } else if(c instanceof ConstantNameAndType) {
                ConstantNameAndType n = (ConstantNameAndType)c;
            }
        }
    }
}
ConstantUtf8 u8 = (ConstantUtf8)constants[n.getNameIndex()];
ConstantUtf8 u8_2 = (ConstantUtf8)constants[n.getSignatureIndex()];

n_a_t_table.put(u8.getBytes() + NAT_DELIM + u8_2.getBytes(), new Index(i));
} else if(c instanceof ConstantUtf8) {
    ConstantUtf8 u = (ConstantUtf8)c;

    utf8_table.put(u.getBytes(), new Index(i));
} else if(c instanceof ConstantCP) {
    ConstantCP m = (ConstantCP)c;
    ConstantClass clazz = (ConstantClass)constants[m.getClassIndex()];
    ConstantNameAndType n = (ConstantNameAndType)constants[m.getNameAndTypeIndex()];

    ConstantUtf8 u8 = (ConstantUtf8)constants[clazz.getNameIndex()];
    String class_name = u8.getBytes().replace('/', '.');

    u8 = (ConstantUtf8)constants[n.getNameIndex()];
    String method_name = u8.getBytes();

    u8 = (ConstantUtf8)constants[n.getSignatureIndex()];
    String signature = u8.getBytes();

    String delim = METHODREF_DELIM;
    if(c instanceof ConstantInterfaceMethodref)
        delim = IMETHODREF_DELIM;
    else if(c instanceof ConstantFieldref)
        delim = FIELDREF_DELIM;

    cp_table.put(class_name + delim + method_name + delim + signature, new Index(i));
}
}

/**
 * Initialize with given constant pool.
 */
public ConstantPoolGen(ConstantPool cp) {
    this(cp.getConstantPool());
}

/**
 * Create empty constant pool.
 */
public ConstantPoolGen() {}

/**
 * Resize internal array of constants.
 */
protected void adjustSize() {
    if(index + 3 >= size) {
        Constant[] cs = constants;

        size *= 2;
        constants = new Constant[size];
        System.arraycopy(cs, 0, constants, 0, index);
    }
}

private HashMap string_table = new HashMap();

/**
 * Look for ConstantString in ConstantPool containing String `str'.
 *
 * @param str String to search for
 * @return index on success, -1 otherwise
 */
public int lookupString(String str) {
    Index index = (Index)string_table.get(str);
    return (index != null) ? index.index : -1;
}

/**
 * Add a new String constant to the ConstantPool, if it is not already in there.
 *
 * @param str String to add
 * @return index of entry
 */
public int addString(String str) {
    int ret;

    if((ret = lookupString(str)) != -1)
        return ret; // Already in CP

    int utf8 = addUtf8(str);
    adjustSize();

    ConstantString s = new ConstantString(utf8);

    ret = index;
    constants[index++] = s;

    string_table.put(str, new Index(ret));

    return ret;
}
private HashMap class_table = new HashMap();

/**
 * Look for ConstantClass in ConstantPool named `str'.
 *
 * @param str String to search for
 * @return index on success, -1 otherwise
 */
public int lookupClass(String str) {
    Index index = (Index)class_table.get(str.replace('.', '/'));
    return (index != null)? index.index : -1;
}

private int addClass_(String clazz) {
    int    ret;

    if((ret = lookupClass(clazz)) != -1)
        return ret; // Already in CP
    adjustSize();

    ConstantClass c = new ConstantClass(addUtf8(clazz));

    ret = index;
    constants[index++] = c;

    class_table.put(clazz, new Index(ret));

    return ret;
}

/**
 * Add a new Class reference to the ConstantPool, if it is not already in there.
 *
 * @param str Class to add
 * @return index of entry
 */
public int addClass(String str) {
    return addClass_(str.replace('.', '/'));
}

/**
 * Add a new Class reference to the ConstantPool for a given type.
 *
 * @param str Class to add
 * @return index of entry
 */
public int addClass(ObjectType type) {
    return addClass_(type.getClassName());
}

/**
 * Add a reference to an array class (e.g. String[[[]]]) as needed by MULTIANEWARRAY
 * instruction, e.g. to the ConstantPool.
 * @param type type of array class
 * @return index of entry
 */
public int addArrayClass(ArrayType type) {
    return addClass_(type.getSignature());
}

/**
 * Look for ConstantInteger in ConstantPool.
 * @param n integer number to look for
 * @return index on success, -1 otherwise
 */
public int lookupInteger(int n) {
    for(int i=1; i < index; i++) {
        if(constants[i] instanceof ConstantInteger) {
            ConstantInteger c = (ConstantInteger)constants[i];
            if(c.getBytes() == n)
                return i;
        }
    }
    return -1;
}

/**
 * Add a new Integer constant to the ConstantPool, if it is not already in there.
 * @param n integer number to add
 * @return index of entry
 */
public int addInteger(int n) {
    int ret;
    if((ret = lookupInteger(n)) != -1)
        return ret; // Already in CP
    adjustSize();
    return -1;
}
ret = index;
constants[index++] = new ConstantInteger(n);

return ret;

/**
 * Look for ConstantFloat in ConstantPool.
 *
 * @param n Float number to look for
 * @return index on success, -1 otherwise
 */
public int lookupFloat(float n) {
    for(int i=1; i < index; i++) {
        if(constants[i] instanceof ConstantFloat) {
            ConstantFloat c = (ConstantFloat)constants[i];
            if(c.getBytes() == n)
                return i;
        }
    }
    return -1;
}

/**
 * Add a new Float constant to the ConstantPool, if it is not already in there.
 *
 * @param n Float number to add
 * @return index of entry
 */
public int addFloat(float n) {
    int ret;

    if((ret = lookupFloat(n)) != -1)
        return ret; // Already in CP
    adjustSize();

    ret = index;
    constants[index++] = new ConstantFloat(n);

    return ret;
}

private HashMap utf8_table = new HashMap();

/**
public int lookupUtf8(String n) {
    Index index = (Index)utf8_table.get(n);
    return (index != null)? index.index : -1;
}

/**
 * Add a new Utf8 constant to the ConstantPool, if it is not already in there.
 *
 * @param n Utf8 string to add
 * @return index of entry
 */
public int addUtf8(String n) {
    int ret;
    if((ret = lookupUtf8(n)) != -1)
        return ret; // Already in CP
    adjustSize();
    ret = index;
    constants[index++] = new ConstantUtf8(n);
    utf8_table.put(n, new Index(ret));
    return ret;
}

/**
 * Look for ConstantLong in ConstantPool.
 *
 * @param n Long number to look for
 * @return index on success, -1 otherwise
 */
public int lookupLong(long n) {
    for(int i=1; i < index; i++) {
        if(constants[i] instanceof ConstantLong) {
            ConstantLong c = (ConstantLong)constants[i];
            if(c.getBytes() == n)
                return i;
        }
    }
}
return -1;
}

/**
 * Add a new long constant to the ConstantPool, if it is not already in there.
 *
 * @param n Long number to add
 * @return index of entry
 */
public int addLong(long n) {
    int ret;

    if((ret = lookupLong(n)) != -1)
        return ret; // Already in CP

    adjustSize();

    ret = index;
    constants[index] = new ConstantLong(n);
    index += 2; // Wastes one entry according to spec

    return ret;
}

/**
 * Look for ConstantDouble in ConstantPool.
 *
 * @param n Double number to look for
 * @return index on success, -1 otherwise
 */
public int lookupDouble(double n) {
    for(int i=1; i < index; i++) {
        if(constants[i] instanceof ConstantDouble) {
            ConstantDouble c = (ConstantDouble)constants[i];
            if(c.getBytes() == n)
                return i;
        }
    }

    return -1;
}

/**
 * Add a new double constant to the ConstantPool, if it is not already in there.
 *
 * @param n Double number to add
@return index of entry
*

public int addDouble(double n) {
    int ret;

    if((ret = lookupDouble(n)) != -1)
        return ret; // Already in CP

    adjustSize();

    ret = index;
    constants[index] = new ConstantDouble(n);
    index += 2; // Wastes one entry according to spec

    return ret;
}

private HashMap n_a_t_table = new HashMap();

/**
 * Look for ConstantNameAndType in ConstantPool.
 *
 * @param name of variable/method
 * @param signature of variable/method
 * @return index on success, -1 otherwise
 */

public int lookupNameAndType(String name, String signature) {
    Index index = (Index)n_a_t_table.get(name + NAT_DELIM + signature);
    return (index != null)? index.index : -1;
}

/**
 * Add a new NameAndType constant to the ConstantPool if it is not already
 * in there.
 *
 * @param n NameAndType string to add
 * @return index of entry
 */

public int addNameAndType(String name, String signature) {
    int ret;
    int name_index, signature_index;

    if((ret = lookupNameAndType(name, signature)) != -1)
        return ret; // Already in CP

    adjustSize();

    name_index    = addUtf8(name);
signature_index = addUtf8(signature);
ret = index;
constants[index++] = new ConstantNameAndType(name_index, signature_index);

n_a_t_table.put(name + NAT_DELIM + signature, new Index(ret));
return ret;
}

private HashMap cp_table = new HashMap();

/**
 * Look for ConstantMethodref in ConstantPool.
 * 
 * @param class_name Where to find method
 * @param method_name Guess what
 * @param signature return and argument types
 * @return index on success, -1 otherwise
 */
public int lookupMethodref(String class_name, String method_name, String signature) {
    Index index = (Index)cp_table.get(class_name + METHODREF_DELIM + method_name +
                                          METHODREF_DELIM + signature);
    return (index != null)? index.index : -1;
}

public int lookupMethodref(MethodGen method) {
    return lookupMethodref(method.getClassName(), method.getName(),
               method.getSignature());
}

/**
 * Add a new Methodref constant to the ConstantPool, if it is not already
 * in there.
 * 
 * @param n Methodref string to add
 * @return index of entry
 */
public int addMethodref(String class_name, String method_name, String signature) {
    int  ret, class_index, name_and_type_index;
    if((ret = lookupMethodref(class_name, method_name, signature)) != -1)
        return ret; // Already in CP

    adjustSize();

    name_and_type_index = addNameAndType(method_name, signature);
    class_index         = addClass(class_name);
    ret = index;
    constants[index++] = new ConstantMethodref(class_index, name_and_type_index);
cp_table.put(class_name + METHODREF_DELIM + method_name + METHODREF_DELIM + signature, new Index(ret));

    return ret;
}

public int addMethodref(MethodGen method) {
    return addMethodref(method.getClassName(), method.getName(), method.getSignature());
}

/**
 * Look for ConstantInterfaceMethodref in ConstantPool.
 * @param class_name Where to find method
 * @param method_name Guess what
 * @param signature return and argument types
 * @return index on success, -1 otherwise
 */
public int lookupInterfaceMethodref(String class_name, String method_name, String signature) {
    Index index = (Index)cp_table.get(class_name + IMETHODREF_DELIM + method_name + IMETHODREF_DELIM + signature);
    return (index != null)? index.index : -1;
}

public int lookupInterfaceMethodref(MethodGen method) {
    return lookupInterfaceMethodref(method.getClassName(), method.getName(), method.getSignature());
}

/**
 * Add a new InterfaceMethodref constant to the ConstantPool, if it is not already
 * in there.
 * @param n InterfaceMethodref string to add
 * @return index of entry
 */
public int addInterfaceMethodref(String class_name, String method_name, String signature) {
    int ret, class_index, name_and_type_index;

    if((ret = lookupInterfaceMethodref(class_name, method_name, signature)) != -1)
        return ret; // Already in CP

    adjustSize();

    class_index = addClass(class_name);
    name_and_type_index = addNameAndType(method_name, signature);
ret = index;
constants[index++] = new ConstantInterfaceMethodref(class_index, name_and_type_index);

        cp_table.put(class_name + IMETHODREF_DELIM + method_name +
                     IMETHODREF_DELIM + signature, new Index(ret));

        return ret;
    }

    public int addInterfaceMethodref(MethodGen method) {
        return addInterfaceMethodref(method.getClassName(), method.getName(),
                                      method.getSignature());
    }

    /**
     * Look for ConstantFieldref in ConstantPool.
     *
     * @param class_name Where to find method
     * @param field_name Guess what
     * @param signature return and argument types
     * @return index on success, -1 otherwise
     */
    public int lookupFieldref(String class_name, String field_name, String signature) {
        Index index = (Index)cp_table.get(class_name + FIELDREF_DELIM + field_name +
                                           FIELDREF_DELIM + signature);
        return (index != null)? index.index : -1;
    }

    /**
     * Add a new Fieldref constant to the ConstantPool, if it is not already
     * in there.
     *
     * @param n Fieldref string to add
     * @return index of entry
     */
    public int addFieldref(String class_name, String field_name, String signature) {
        int  ret;
        int  class_index, name_and_type_index;

        if((ret = lookupFieldref(class_name, field_name, signature)) != -1)
            return ret; // Already in CP

        adjustSize();

        class_index    = addClass(class_name);
        name_and_type_index = addNameAndType(field_name, signature);
        ret = index;
        constants[index++] = new ConstantFieldref(class_index, name_and_type_index);
return ret;
}

/**
 * @param i index in constant pool
 * @return constant pool entry at index i
 */
public Constant getConstant(int i) { return constants[i]; }

/**
 * Use with care!
 * @param i index in constant pool
 * @param c new constant pool entry at index i
 */
public void setConstant(int i, Constant c) { constants[i] = c; }

/**
 * @return intermediate constant pool
 */
public ConstantPool getConstantPool() {
    return new ConstantPool(constants);
}

/**
 * @return current size of constant pool
 */
public int getSize() {
    return index;
}

/**
 * @return constant pool with proper length
 */
public ConstantPool getFinalConstantPool() {
    Constant[] cs = new Constant[index];
    System.arraycopy(constants, 0, cs, 0, index);

    return new ConstantPool(cs);
}

/**
 * @return String representation.
 */
public String toString() {
    StringBuffer buf = new StringBuffer();

    for(int i=1; i < index; i++)
        buf.append((i + "") + constants[i] + "\n");

    return buf.toString();
}

/** Import constant from another ConstantPool and return new index. */
public int addConstant(Constant c, ConstantPoolGen cp) {
    Constant[] constants = cp.getConstantPool().getConstantPool();

    switch(c.getTag()) {
    case Constants.CONSTANT_String: {
        ConstantString s = (ConstantString)c;
        ConstantUtf8 u8 = (ConstantUtf8)constants[s.getStringIndex()];

        return addString(u8.getBytes());
    }

    case Constants.CONSTANT_Class: {
        ConstantClass s = (ConstantClass)c;
        ConstantUtf8 u8 = (ConstantUtf8)constants[s.getNameIndex()];

        return addClass(u8.getBytes());
    }

    case Constants.CONSTANT_NameAndType: {
        ConstantNameAndType n = (ConstantNameAndType)c;
        ConstantUtf8 u8 = (ConstantUtf8)constants[n.getNameIndex()];
        ConstantUtf8 u8_2 = (ConstantUtf8)constants[n.getSignatureIndex()];

        return addNameAndType(u8.getBytes(), u8_2.getBytes());
    }

    case Constants.CONSTANT_Utf8:
        return addUtf8(((ConstantUtf8)c).getBytes());

    case Constants.CONSTANT_Double:
        return addDouble(((ConstantDouble)c).getBytes());

    case Constants.CONSTANT_Float:
        return addFloat(((ConstantFloat)c).getBytes());

    case Constants.CONSTANT_Long:
        return addLong(((ConstantLong)c).getBytes());
    }
case Constants.CONSTANT_Integer:  
    return addInteger(((ConstantInteger)c).getBytes());

case Constants.CONSTANT_InterfaceMethodref: case Constants.CONSTANT_Methodref:  
    case Constants.CONSTANT_Fieldref: {
        ConstantCP m = (ConstantCP)c;
        ConstantClass clazz = (ConstantClass)constants[m.getClassIndex()];
        ConstantNameAndType n = (ConstantNameAndType)constants[m.getNameAndTypeIndex()];
        ConstantUtf8 u8 = (ConstantUtf8)constants[clazz.getNameIndex()];
        String class_name = u8.getBytes().replace('/', '.');

        u8 = (ConstantUtf8)constants[n.getNameIndex()];
        String name = u8.getBytes();

        u8 = (ConstantUtf8)constants[n.getSignatureIndex()];
        String signature = u8.getBytes();

        switch(c.getTag()) {
            case Constants.CONSTANT_InterfaceMethodref:
                return addInterfaceMethodref(class_name, name, signature);
            case Constants.CONSTANT_Methodref:
                return addMethodref(class_name, name, signature);
            case Constants.CONSTANT_Fieldref:
                return.addFieldref(class_name, name, signature);
            default: // Never reached
                throw new RuntimeException("Unknown constant type "+ c);
        }
    }

default: // Never reached
    throw new RuntimeException("Unknown constant type "+ c);
}
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*/
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 * This class represents an uninitialized object type; see The Java
 * more details.
 *
 * @version $Id: UninitializedObjectType.java,v 1.1.1.1 2001/10/29 20:00:42 jvanzyl Exp $
 * @author <A HREF="http://www.inf.fu-berlin.de/~ehaase">Enver Haase</A>
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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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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 * Exp $
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* $Id: XPathReaderFactory.java,v 1.7 2002/04/26 17:05:34 jstrachan Exp $
* /

Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
* jar/org/saxpath/helpers/XPathReaderFactory.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/SAXPathEventSource.java,v 1.2 2002/04/26
* 17:05:34 jstrachan Exp $
* $Revision: 1.2 $
* $Date: 2002/04/26 17:05:34 $
* *
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* $Id: SAXPathEventSource.java,v 1.2 2002/04/26 17:05:34 jstrachan Exp $
Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1.jar/org/saxpath/SAXPathEventSource.java
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 * $Revision: 1.22 $
 * $Date: 2002/04/26 17:05:34 $
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* $Id: XPathReader.java,v 1.22 2002/04/26 17:05:34 jstrachan Exp $
*

Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
  jar/com/werken/saxpath/XPathReader.java
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/*
  17:05:34 jstrachan Exp $
* $Revision: 1.8 $
* $Date: 2002/04/26 17:05:34 $
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$Id: DefaultXPathHandler.java,v 1.8 2002/04/26 17:05:34 jstrachan Exp$

Found in path(s):
*/

$Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/Axis.java,v 1.11 2002/04/26 17:05:34 jstrachan Exp$

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* $Id: Axis.java,v 1.11 2002/04/26 17:05:34 jstrachan Exp $
* /

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* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-jar/org/saxpath/Axis.java
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/ *
* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/SAXPathException.java,v 1.3 2002/04/26 17:05:34
  jstrachan Exp $ 
* $Revision: 1.3 $ 
* $Date: 2002/04/26 17:05:34 $ 
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*/

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/opt/cola/permits/1111238015_160682887.13/0/saxpath-1-0-fcs-sources-1-
jar/org/saxpath/SAXPathException.java
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* $Header: /cvsroot/saxpath/saxpath/src/java/main/org/saxpath/conformance/ConformanceXPathHandler.java,v 1.8
2002/04/26 17:05:34 jstrachan Exp $
* $Revision: 1.8 $
* $Date: 2002/04/26 17:05:34 $
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* $Id: ConformanceXPathHandler.java,v 1.8 2002/04/26 17:05:34 jstrachan Exp $
* /
Found in path(s):
* /opt/cola/permits/1111238015_1606882887.13/0/saxpath-1-0-fcs-sources-1-
jar/org/saxpath/conformance/ConformanceXPathHandler.java
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 * $Header: /cvsroot/saxpath/saxpath/src/java/main/com/werken/saxpath/TokenTypes.java,v 1.4 2002/04/26
 * 17:05:34 jstrachan Exp $
 * $Revision: 1.4 $
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1.1898 aspect-j 1.8.2

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Manifest-Version: 1.0

Name: org/aspectj/lang/
Specification-Title: AspectJ Runtime Classes
Specification-Version: 1.8
Specification-Vendor: aspectj.org
Implementation-Title: org.aspectj.tools
Implementation-Version: 1.8.2
Implementation-Vendor: aspectj.org
Bundle-Name: AspectJ Runtime
Bundle-Version: 1.8.2
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* /opt/cola/permits/1003589918_1608114992.1/0/aspectjrt-1-8-2-jar/META-INF/MANIFEST.MF
1.1899 libsndfile 1.0.25-12.el7

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1.1901 perl-podlators 2.5.1-3.el7

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abstract: 'Convert POD data to various other formats'
author:
  - 'Russ Allbery <rra@stanford.edu>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: podlators
no_index:
directory:
  - t
  - inc
requires:
  Encode: 0
  File::Spec: 0.8
  Pod::Simple: 3.06
version: 2.5.1

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/MYMETA.yml

No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl

# pod2man -- Convert POD data to formatted *roff input.
#
# Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well.  --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (
%options, 'center|c=s', 'date|d=s', 'errors=s', 'fixed=s',
'fixedbold=s', 'fixeditalic=s', 'fixedbolditalic=s', 'help|h',
'lax|l', 'name|n=s', 'nourls', 'official|o', 'quotes|q=s',
'release|r:s', 'section|s=s', 'stderr', 'verbose|v', 'utf8|u')
or exit 1;
pod2usage (0) if %options{help};

# Official sets --center, but don't override things explicitly set.
if (%options{official} && !defined %options{center}) {
  %options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = %options{verbose};
delete %options{verbose};

# This isn't a valid Pod::Man option and is only accepted for backward
# compatibility.
delete %options{lax};

# If neither stderr nor errors is set, default to errors = die.
if (!defined %options{stderr} && !defined %options{errors}) {
  %options{errors} = 'die';
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;

do {
    @files = splice (@ARGV, 0, 2);
    print "  $files[1]\n" if $verbose;
    $parser->parse_from_file (@files);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $files[0]\n";
        if (defined ($files[1]) and $files[1] ne '-') {
            unlink $files[1] unless (-s $files[1]);
        }
    }
} while (@ARGV);
exit $status;

=head1 NAME

pod2man - Convert POD data to formatted *roff input

=head1 SYNOPSIS

pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<style>]
    [B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>]
    [B<--fixedbolditalic>=I<font>] [B<--name>=I<name>] [B<--nourls>]
    [B<--official>] [B<--quotes>=I<quotes>] [B<--release>=I<version>]]
    [B<--section>=I<manext>] [B<--stderr>] [B<--utf8>] [B<--verbose>]
    [I<input> [I<output> ...]]

pod2man B<--help>

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate *roff input
from POD source. The resulting *roff code is suitable for display on a
terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in
code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if
given, is the file to which to write the formatted output. If I<output>
 isn't given, the formatted output is written to C<STDOUT>. Several POD
files can be processed in the same B<pod2man> invocation (saving module
load and compile times) by providing multiple pairs of I<input> and
I<output> files on the command line.

B<--section>, B<--release>, B<--center>, B<--date>, and B<--official> can
be used to set the headers and footers to use; if not given, Pod::Man will
assume various defaults. See below or L<Pod::Man> for details.

B<pod2man> assumes that your *roff formatters have a fixed-width font
named C<CW>. If yours is called something else (like C<CR>), use
B<--fixed> to specify it. This generally only matters for troff output
for printing. Similarly, you can set the fonts used for bold, italic, and
bold italic fixed-width output.

Besides the obvious pod conversions, Pod::Man, and therefore pod2man also
takes care of formatting func(), func(n), and simple variable references
like $foo or @bar so you don't have to use code escapes for them; complex
expressions like C<$fred['stuff']> will still need to be escaped, though.
It also translates dashes that aren't used as hyphens into en dashes, makes
long dashes--like this--into proper em dashes, fixes "paired quotes," and
takes care of several other troff-specific tweaks. See L<Pod::Man> for
complete information.

=head1 OPTIONS

=over 4

=item B<-c> I<string>, B<--center>=I<string>

Sets the centered page header to I<string>. The default is "User
Contributed Perl Documentation", but also see B<--official> below.

=item B<-d> I<string>, B<--date>=I<string>

Set the left-hand footer string to this value. By default, the modification
date of the input file will be used, or the current date if input comes from
C<STDIN>.

=item B<-errors>=I<style>

Set the error handling style. C<die> says to throw an exception on any
POD formatting error. C<stderr> says to report errors on standard error,
but not to throw an exception. C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C<none> ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B|--fixed|=I<font>

The fixed-width font to use for verbatim text and code. Defaults to C<CW>. Some systems may want C<CR> instead. Only matters for troff(1) output.

=item B|--fixedbold|=I<font>

Bold version of the fixed-width font. Defaults to C<CB>. Only matters for troff(1) output.

=item B|--fixeditalic|=I<font>

Italic version of the fixed-width font (actually, something of a misnomer, since most fixed-width fonts only have an oblique version, not an italic version). Defaults to C<CI>. Only matters for troff(1) output.

=item B|--fixedbolditalic|=I<font>

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to C<CB>. Some systems (such as Solaris) have this font available as C<CX>. Only matters for troff(1) output.

=item B<-h>, B|--help

Print out usage information.

=item B<-l>, B|--lax

No longer used. B<pod2man> used to check its input for validity as a manual page, but this should now be done by L<podchecker(1)> instead. Accepted for backward compatibility; this option no longer does anything.

=item B<-n> I<name>, B|--name|=I<name>

Set the name of the manual page to I<name>. Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path. If it is, a path like C<.../lib/Pod/Man.pm> is converted into a name like C<Pod::Man>. This option, if given, overrides any automatic determination of the name.
Note that this option is probably not useful when converting multiple POD files at once. The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.

=item B|--nourls>

Normally, LZ<<>> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

L<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B|--official>

Set the default header to indicate that this page is part of the standard Perl release, if B|--center> is not also given.

=item B<-q> I<quotes>, B|--quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text (but the font is still changed for troff output).

=item B<-r>, B|--release>

Set the centered footer. By default, this is the version of Perl you run B<pod2man> under. Note that some system an macro sets assume that the centered footer will be a modification date and will prepend something like "Last modified: "; if this is the case, you may want to set B|--release> to the last modified date and B|--date> to the version number.
Set the section for the C<.TH> macro. The standard section numbering convention is to use 1 for user commands, 2 for system calls, 3 for functions, 4 for devices, 5 for file formats, 6 for games, 7 for miscellaneous information, and 8 for administrator commands. There is a lot of variation here, however; some systems (like Solaris) use 4 for file formats, 5 for miscellaneous information, and 7 for devices. Still others use 1m instead of 8, or some mix of both. About the only section numbers that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in which case section 3 will be selected.

=item B|--stderr|

By default, B<pod2man> dies if any errors are detected in the POD input. If B|--stderr| is given and no B|--errors| flag is present, errors are sent to standard error, but B<pod2man> does not abort. This is equivalent to C|--errors=stderr| and is supported for backward compatibility.

=item B|--utf8|

By default, B<pod2man> produces the most conservative possible *roff output to try to ensure that it will work with as many different *roff implementations as possible. Many *roff implementations cannot handle non-ASCII characters, so this means all non-ASCII characters are converted either to a *roff escape sequence that tries to create a properly accented character (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your *roff implementation can handle it, this is the best output format to use and avoids corruption of documents containing non-ASCII characters. However, be warned that *roff source with literal UTF-8 characters is not supported by many implementations and may even result in segfaults and other bad behavior.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.

=item B|--verbose|

Print out the name of each output file as it is being generated.

=back

=head1 EXIT STATUS
As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2man> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2man> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2man> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2man> fails with errors, see L<Pod::Man> and L<Pod::Simple> for information about what those errors might mean.

=head1 EXAMPLES

    pod2man program > program.1
    pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
    pod2man --section=7 note.pod > note.7

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of man(7).

    troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...

To get index entries on C<STDERR>, turn on the F register, as in:

    troff -man -rF1 perl.1

The indexing merely outputs messages via C<.tm> for each major page, section, subsection, item, and any C<XE<lt>E<gt>> directives. See L<Pod::Man> for more details.

=head1 BUGS

Lots of this documentation is duplicated from L<Pod::Man>.

=head1 SEE ALSO

L<Pod::Man>, L<Pod::Simple>, L<man(1)>, L<nroff(1)>, L<perlpod(1)>, L<podchecker(1)>, L<perlpodstyle(1)>, L<troff(1)>, L<man(7)>

The man page documenting the an macro set may be L<man(5)> instead of L<man(7)> on your system.

The current version of this script is always available from its web site at L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the

Open Source Used In OnPrem2.1 2.2 17752
Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based very heavily on the original B<pod2man> by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE


This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/scripts/pod2man

No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.
# version.

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Text/Termcap.pm
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Text/Overstrike.pm

No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/META.yml

No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/perl-podlators.spec

No license file was found, but licenses were detected in source scan.

#!perl
# pod2text -- Convert POD data to formatted ASCII text.
#
#    Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
#
# The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,
# invoked by perldoc -t among other things.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Text ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Take an initial pass through our options, looking for one of the form
#   -<number>.  We turn that into -w <number> for compatibility with the
# original pod2text script.
for (my $i = 0; $i < @ARGV; $i++) {
    last if $ARGV[$i] =~ /^--$/;
    if ($ARGV[$i] =~ /^-(\d+)$/) {
        splice (@ARGV, $i++, 1, '-w', $1);
    }
}

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin (which Pod::Simple
# does correctly).
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options. Use the same names as Pod::Text for simplicity, and
# default to sentence boundaries turned off for compatibility.
my %options;
$options{sentence} = 0;
Getopt::Long::config ('bundling');
GetOptions (%options, 'alt|a', 'code', 'color|c', 'errors=s', 'help|h',
'indent|i=i', 'loose|l', 'margin|left-margin|m=i', 'nourls|',
'overstrike|o', 'quotes=q=s', 'sentence|s', 'stderr', 'termcap|t',
'utf8|u', 'width|w=i')
or exit 1;
pod2usage (1) if $options{help};

# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if ($options{color}) {
    $formatter = 'Pod::Text::Color';
    eval { require Term::ANSIColor };
    if ($@) { die "-c (--color) requires Term::ANSIColor be installed\n" }
    require Pod::Text::Color;
} elsif ($options{termcap}) {
    $formatter = 'Pod::Text::Termcap';
    require Pod::Text::Termcap;
} elsif ($options{overstrike}) {
    $formatter = 'Pod::Text::Overstrike';
    require Pod::Text::Overstrike;
}
delete @options{'color', 'termcap', 'overstrike'};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
    my ($input, $output) = splice (@ARGV, 0, 2);
    $parser->parse_from_file ($input, $output);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $input\n";
        if (defined ($output) and $output ne '-') {
            unlink $output unless (-s $output);
        }
    }
}while (@ARGV);
exit $status;

__END__

=for stopwords
-aclostdtu --alt --stderr Allbery --overstrike overstrike --termcap --utf8
UTF-8 subclasses --nourls

=head1 NAME
pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS

pod2text [B<-aclostu>] [B<-code>] [B<-errors>=I<style>] [B<-i> I<indent>] [S<[B<-q> I<quotes>]> [B<-nourls>] [B<-stderr>] S<[B<-w> I<width>]>
[I<input> I<output> ...]]

pod2text B<-h>

=head1 DESCRIPTION

B<pod2text> is a front-end for Pod::Text and its subclasses. It uses them to generate formatted ASCII text from POD source. It can optionally use either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2text> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B<--alt>
Use an alternate output format that, among other things, uses a different heading style and marks C=item> entries with a colon in the left margin.

=item B<-code>
Include any non-POD text from the input file in the output as well. Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

=item B<-c>, B<--color>
Format the output with ANSI color escape sequences. Using this option requires that Term:::ANSIColor be installed on your system.

=item B<-i> I<indent>, B<--indent=>I<indent>
Set the number of spaces to indent regular text, and the default indentation for C<over> blocks. Defaults to 4 spaces if this option isn't given.
Set the error handling style. `C<die>` says to throw an exception on any
POD formatting error. `C<stderr>` says to report errors on standard error,
but not to throw an exception. `C<pod>` says to include a POD ERRORS
section in the resulting documentation summarizing the errors. `C<none>`
ignores POD errors entirely, as much as possible.

The default is `C<die>`.

`=item B<-h>, B<--help>`

Print out usage information and exit.

`=item B<-l>, B<--loose>`

Print a blank line after a `C<=head1>` heading. Normally, no blank line is
printed after `C<=head1>`, although one is still printed after `C<=head2>`,
because this is the expected formatting for manual pages; if you're
formatting arbitrary text documents, using this option is recommended.

`=item B<-m> I<width>, B<--left-margin>=I<width>, B<--margin>=I<width>`

The width of the left margin in spaces. Defaults to 0. This is the margin
for all text, including headings, not the amount by which regular text is
indented; for the latter, see `B<-i>` option.

`=item B<--nourls>`

Normally, LZ<> formatting codes with a URL but anchor text are formatted
to show both the anchor text and the URL. In other words:

   L<foo|http://example.com/>

is formatted as:

   foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this
example would be formatted as just `C<foo>`. This can produce less
cluttered output in cases where the URLs are not particularly important.

`=item B<-o>, B<--overstrike>`

Format the output with overstrike printing. Bold text is rendered as
character, backspace, character. Italics and file names are rendered as
underscore, backspace, character. Many pagers, such as `B<less>`, know how
to convert this to bold or underlined text.

=item B<-q>, B|--quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text.

=item B<-s>, B|--sentence>

Assume each sentence ends with two spaces and try to preserve that spacing. Without this option, all consecutive whitespace in non-verbatim paragraphs is compressed into a single space.

=item B|--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B|--stderr> is given and no B|--errors> flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C|--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B|--termcap>

Try to determine the width of the screen and the bold and underline sequences for the terminal from termcap, and use that information in formatting the output. Output will be wrapped at two columns less than the width of your terminal device. Using this option requires that your system have a termcap file somewhere where Term::Cap can find it and requires that your system support termios. With this option, the output of B<pod2text> will contain terminal control sequences for your current terminal type.

=item B<-u>, B|--utf8>

By default, B<pod2text> tries to use the same output encoding as its input encoding (to be backward-compatible with older versions). This option says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See
L<perlpod(1)> for more information on the C<==encoding> command.

=item B<-w>, B<--width=>I<width>, B<-width=I<width>

The column at which to wrap text on the right-hand side. Defaults to 76, unless B<-t> is given, in which case it's two columns less than the width of your terminal device.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2text> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2text> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2text> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2text> fails with errors, see L<Pod::Text> and L<Pod::Simple> for information about what those errors might mean. Internally, it can also produce the following diagnostics:

=over 4

=item -c (--color) requires Term::ANSIColor be installed

(F) B<-c> or B<--color> were given, but Term::ANSIColor could not be loaded.

=item Unknown option: %s

(F) An unknown command line option was given.

=back

In addition, other L<Getopt::Long> error messages may result from invalid command-line options.

=head1 ENVIRONMENT

=over 4

=item COLUMNS
If B<!t> is given, B<pod2text> will take the current width of your screen from this environment variable, if available. It overrides terminal width information in TERMCAP.

=item TERMCAP

If B<!t> is given, B<pod2text> will use the contents of this environment variable if available to determine the correct formatting sequences for your current terminal device.

=back

=head1 SEE ALSO

L<Pod::Text>, L<Pod::Text::Color>, L<Pod::Text::Overstrike>, L<Pod::Text::Termcap>, L<Pod::Simple>, L<perlpod(1)>

The current version of this script is always available from its web site at L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>.

=head1 COPYRIGHT AND LICENSE


This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fj/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/scripts/pod2text
No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fj/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/t/filehandle.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fj/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/lib/Pod/Man.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

perlpodstyle - Perl POD style guide
These are general guidelines for how to write POD documentation for Perl scripts and modules, based on general guidelines for writing good UNIX man pages. All of these guidelines are, of course, optional, but following them will make your documentation more consistent with other documentation on the system.

The name of the program being documented is conventionally written in bold (using \texttt{\textbf{BE<lt>E<gt>}}) wherever it occurs, as are all program options. Arguments should be written in italics (\texttt{IE<lt>E<gt>}). Function names are traditionally written in italics; if you write a function as \texttt{function()}, Pod::Man will take care of this for you. Literal code or commands should be in \texttt{CE<lt>E<gt>}. References to other man pages should be in the form \texttt{C<manpage(section)>}, or \texttt{C<LE<lt>manpage(section)E<gt>>}, and Pod::Man will automatically format those appropriately. The second form, with \texttt{LE<lt>E<gt>}, is used to request that a POD formatter make a link to the man page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use \texttt{C<LE<lt>Module::NameE<gt>>} for module references instead.

References to other programs or functions are normally in the form of man page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in \texttt{BE<lt>E<gt>}.

The major headers should be set out using a \texttt{C<\texttt{=head1}>} directive, and are historically written in the rather startling ALL UPPER CASE format; this is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may be included using \texttt{C<\texttt{=head2}>}, and are typically in mixed case.

The standard sections of a manual page are:

\texttt{=over 4}

\texttt{=item NAME}

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

\texttt{foo, bar - programs to do something}

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or
A short usage summary for programs and functions. This section is mandatory for section 3 pages. For Perl module documentation, it's usually convenient to have the contents of this section be a verbatim block showing some (brief) examples of typical ways the module is used.

Extended description and discussion of the program or functions, or the body of the documentation for man pages that document something else. If particularly long, it's a good idea to break this up into subsections `<head2>` directives like:

```
=head2 Normal Usage

=head2 Advanced Features

=head2 Writing Configuration Files
```

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces provided by the module goes, usually in the form of a list with an `<item>` for each interface. Depending on how many interfaces there are, you may want to put that documentation in separate METHODS, FUNCTIONS, CLASS METHODS, or INSTANCE METHODS sections instead and save the DESCRIPTION section for an overview.

Detailed description of each of the command-line options taken by the program. This should be separate from the description for the use of parsers like `Pod::Usage`. This is normally presented as a list, with each option as a separate `<item>`. The specific option string should be enclosed in `<lt>`. Any values that the option takes should be enclosed in `<gt>`. For example, the section for the option `|--section|=I<manext>` would be introduced with:

```
=item B|--section|=I<manext>
```
Synonymous options (like both the short and long forms) are separated by a comma and a space on the same C<item> line, or optionally listed as their own item with a reference to the canonical name. For example, since B<--section> can also be written as B<-s>, the above would be:

=item B<-s> I<manext>, B<--section>=I<manext>

Writing the short option first is recommended because it's easier to read. The long option is long enough to draw the eye to it anyway and the short option can otherwise get lost in visual noise.

=item RETURN VALUE

What the program or function returns, if successful. This section can be omitted for programs whose precise exit codes aren't important, provided they return 0 on success and non-zero on failure as is standard. It should always be present for functions. For modules, it may be useful to summarize return values from the module interface here, or it may be more useful to discuss return values separately in the documentation of each function or method the module provides.

=item ERRORS

Exceptions, error return codes, exit statuses, and errno settings. Typically used for function or module documentation; program documentation uses DIAGNOSTICS instead. The general rule of thumb is that errors printed to C<STDOUT> or C<STDERR> and intended for the end user are documented in DIAGNOSTICS while errors passed internal to the calling program and intended for other programmers are documented in ERRORS. When documenting a function that sets errno, a full list of the possible errno values should be given here.

=item DIAGNOSTICS

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see perldiag(1) for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

=item EXAMPLES

Give some example uses of the program or function. Don't skimp; users
often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a short paragraph saying what the example will do can increase the value of the example immensely.

=item ENVIRONMENT

Environment variables that the program cares about, normally presented as a list using `C<over>`, `C<item>`, and `C<back>`. For example:

=over 6

=item HOME

Used to determine the user's home directory. `F<.foorc>` in this directory is read for configuration details, if it exists.

=back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

=item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in `F<lt>FE<gt>`. It's particularly important to document files that will be potentially modified.

=item CAVEATS

Things to take special care with, sometimes called WARNINGS.

=item BUGS

Things that are broken or just don't work quite right.

=item RESTRICTIONS

Bugs you don't plan to fix. :-)

=item NOTES

Miscellaneous commentary.

=item AUTHOR
Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users have a way of contacting you. Remember that program documentation tends to roam the wild for far longer than you expect and pick a contact method that's likely to last.

=item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.

=item COPYRIGHT AND LICENSE

For copyright

  Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, "all rights reserved" is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

  This library is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

This makes it easy for people to use your module with Perl. Note that this licensing example is neither an endorsement or a requirement, you are of course free to choose any licensing.

=item SEE ALSO

Other man pages to check out, like man(1), man(7), makewhatis(8), or catman(8). Normally a simple list of man pages separated by commas, or a paragraph giving the name of a reference work. Man page references, if they use the standard C<name(section)> form, don't have to be enclosed in LE<lt>E<gt> (although it's recommended), but other things in this section probably should be when appropriate.

If the package has a mailing list, include a URL or subscription instructions here.

If the package has a web site, include a URL here.

=back

Documentation of object-oriented libraries or modules may want to use
CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS sections, for detailed documentation of the parts of the library and save the DESCRIPTION section for an overview. Large modules with a function interface may want to use FUNCTIONS for similar reasons. Some people use OVERVIEW to summarize the description if it's quite long.

Section ordering varies, although NAME must always be the first section (you'll break some man page systems otherwise), and NAME, SYNOPSIS, DESCRIPTION, and OPTIONS generally always occur first and in that order if present. In general, SEE ALSO, AUTHOR, and similar material should be left for last. Some systems also move WARNINGS and NOTES to last. The order given above should be reasonable for most purposes.

Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L<Pod::Man>, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing translators will do the wrong thing with e-mail addresses when wrapped in LE<lt>E<gt>, so don't do that.

=head1 SEE ALSO

For additional information that may be more accurate for your specific system, see either L<man(5)> or L<man(7)> depending on your system manual section numbering conventions.

This documentation is maintained as part of the podlators distribution. The current version is always available from its web site at <http://www.eyrie.org/~eagle/software/podlators/>.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, with large portions of this documentation taken from the documentation of the original B<pod2man> implementation by Larry Wall and Tom Christiansen.

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=cut

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1.1902 slf4j-jdk14 1.7.32
1.1902.1 Available under license:
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 */

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* /opt/cola/permits/1198680824_1630400480.93/0/slf4j-jdk14-1-7-32-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1198680824_1630400480.93/0/slf4j-jdk14-1-7-32-sources-jar/org/slf4j/impl/JDK14LoggerFactory.java
* /opt/cola/permits/1198680824_1630400480.93/0/slf4j-jdk14-1-7-32-sources-jar/org/slf4j/impl/JDK14LoggerAdapter.java
* /opt/cola/permits/1198680824_1630400480.93/0/slf4j-jdk14-1-7-32-sources-jar/org/slf4j/impl/StaticMDCBinder.java
1.1903 activemq-amqp 5.16.1
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1.1904 xorg-randr 1.5.1-2.el7

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1.1905 python-futures 3.2.0-1.ph3
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1.1907 datanucleus-api-jdo 3.1.3
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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
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.

All model parameters are passed to the XSLT Transformer as parameters.
In addition the user can configure [@link #setOutputProperties output properties]
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@since 2.0

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* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/ModelAndView.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/view/jasperreports/AbstractJasperReportsView.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/view/InternalResourceView.java
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* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/tags/form/FormTag.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3.jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java
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* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3- jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
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* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3- jar/org/springframework/web/servlet/view/jasperreports/JasperReportsCsvView.java

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1.1918 mqtt-client 1.10

1.1919 perl-constant 1.27 2.el7

1.1920 javasimon-core 4.1.0

1.1921 libevent 2.0.21-4.el7

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1.1922 concurrent 1.3.4
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/*! File: ReaderPreferenceReadWriteLock.java

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History:
Date       Who           What
11Jun1998  dl            Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReaderPreferenceReadWriteLock.java
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/*
File: SyncSortedMap.java

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History:
Date    Who    What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1.3.4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedMap.java
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/*
File: Semaphore.java

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History:
Date    Who    What
11Jun1998 dl    Create public version
5Aug1998 dl    replaced int counters with longs
24Aug1999 dl    release(n): screen arguments
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1.3.4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Semaphore.java
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/*
File: SynchronizationTimer.java

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History:
Date    Who    What
7Jul1998 dl    Create public version
16Jul1998 dl   fix initialization error for compute loops
combined into one frame
misc layout and defaults changes
increase printed precision
overlap get/set in Executor tests
Swap defaults for swing import
Active thread counts reflect executors

30Aug1998 dl  Misc revisions to mesh with 1.1.0
27Jan1999 dl  Eliminate GC calls
24Nov2001 dl  Increase some default values
*/

Found in path(s):
*/
File: SemaphoreControlledChannel.java

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History:
Date   Who    What
16Jun1998 dl Create public version
5Aug1998 dl replaced int counters with longs
08dec2001 dl reflective constructor now uses longs too.
*/

Found in path(s):
*/
File: Task.java

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History:
Date   Who    What
7Jan1999 dl first release
14jan1999 dl simplify start() semantics;
improve documentation
18Jan1999 dl Eliminate useless time-based waits.
7Mar1999 dl Add reset method,
add array-based composite operations
27Apr1999 dl Rename
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTask.java
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/*
File: LayeredSync.java

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and everyone contributing, testing, and using this code.

History:
Date   Who     What
1Aug1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LayeredSync.java
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/*
File: ClockDaemon.java

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History:
Date   Who     What
29Aug1998 dl created initial public version
17dec1998 dl null out thread after shutdown
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ClockDaemon.java
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/*
 File: WaitableLong.java

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 History:
 Date Who What
 23Jun1998 dl Create public version
 13may2004 dl Add notifying bit ops
 */

Found in path(s):
  */opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/WaitableLong.java

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/*
 File: PooledExecutor.java

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 Thanks for the assistance and support of Sun Microsystems Labs,
 and everyone contributing, testing, and using this code.

 History:
 Date Who What
 19Jun1998 dl Create public version
 29aug1998 dl rely on ThreadFactoryUser,
 remove ThreadGroup-based methods
 adjusted locking policies
 3mar1999 dl Worker threads sense decreases in pool size
 31mar1999 dl Allow supplied channel in constructor;
 add methods createThreads, drain
 15may1999 dl Allow infinite keepalives
 21oct1999 dl add minimumPoolSize methods
 7sep2000 dl BlockedExecutionHandler now an interface,
 new DiscardOldestWhenBlocked policy
 12oct2000 dl add shutdownAfterProcessingCurrentlyQueuedTasks
 13nov2000 dl null out task ref after run
 08apr2001 dl declare inner class ctor protected
 12nov2001 dl Better shutdown support
 Blocked exec handlers can throw IE
 Simplify locking scheme
 */
25jan2001 dl {get,set}BlockedExecutionHandler now public
17may2002 dl null out task var in worker run to enable GC.
30aug2003 dl check for new tasks when timing out
18feb2004 dl replace dead thread if no others left
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PooledExecutor.java
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File: Rendezvous.java

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History:
Date       Who                What
11Jun1998  dl               Create public version
30Jul1998  dl               Minor code simplifications
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Rendezvous.java
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File: Executor.java

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History:
Date       Who                What
19Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Executor.java
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File: FIFOReadWriteLock.java

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History:
Date   Who   What
11Jun1998  dl   Create public version
23nov2001  dl   Replace main algorithm with fairer version based on one by Alexander Terekhov
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FIFOReadWriteLock.java
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File: TimeoutException.java

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History:
Date   Who   What
29Jun1998  dl   Create public version
4Aug1998  dl   Change to extend InterruptedException
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/TimeoutException.java
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Found in path(s):
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This class is based on Sun JDK java.beans.VetoableChangeSupport,
which is copyrighted by Sun. (It shares practically no code, but for
consistency, the documentation was lifted and adapted here.)

History:
Date   Who   What
14Mar1999 dl first release
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/VetoableChangeMulticaster.java
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File: LockedExecutor.java

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History:
Date   Who    What
21Jun1998 dl  Create public version
*/

Found in path(s):
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File: SynchronizedLong.java

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History:
Date   Who    What
19Jun1998 dl  Create public version
15Apr2003 dl  Removed redundant "synchronized" for multiply()
23jan04 dl    synchronize self-swap case for swap
*/

Found in path(s):
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/*

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History:

Date    Who    What
11Jun1998 dl    Create public version
5Aug1998 dl    replaced int counters with longs

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantLock.java
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History:

Date    Who    What
1Aug1998 dl    Create public version

Found in path(s):
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File: FJTaskRunner.java

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History:

Date    Who    What
7Jan1999 dl    First public release
13Jan1999 dl    correct a stat counter update;
                ensure inactive status on run termination;
                misc minor cleaup
14Jan1999 dl    Use random starting point in scan;
                variable renamings.
18Jan1999 dl    Runloop allowed to die on task exception;
                remove useless timed join
22Jan1999 dl    Rework scan to allow use of priorities.
6Feb1999 dl Documentation updates.
7Mar1999 dl Add array-based coInvoke
31Mar1999 dl Revise scan to remove need for NullTasks
27Apr1999 dl Renamed
23oct1999 dl Earlier detect of interrupt in scanWhileIdling
24nov1999 dl Now works on JVMs that do not properly implement read-after-write of 2 volatiles.

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunner.java
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/*/ 

File: Takable.java

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History:
Date Who What
11Jun1998 dl Create public version

*/

Found in path(s):
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/*/ 

File: Slot.java

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History:
Date Who What
11Jun1998 dl Create public version
25aug1998 dl added peek

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
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File: WaiterPreferenceSemaphore.java

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History:
Date   Who   What
11Jun1998 dl  Create public version
5Aug1998 dl  replaced int counters with longs

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaiterPreferenceSemaphore.java

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File: FutureResult.java

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History:
Date   Who   What
30Jun1998 dl  Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FutureResult.java

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History:
Date       Who                What
21Jun1998  dl               Create public version  
9Oct1999   dl               faster equals  
29Jun2001  dl               Serialization methods now private  
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArrayList.java  
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/*
File: ThreadedExecutor.java

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History:
Date       Who                What
21Jun1998  dl               Create public version  
28Aug1998  dl               factored out ThreadFactoryUser  
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadedExecutor.java  
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/*
File: WaitFreeQueue.java

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### History:

<table>
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<th>Date</th>
<th>Who</th>
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<td>16Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>replaced int counters with longs</td>
</tr>
<tr>
<td>17Nov2001</td>
<td>dl</td>
<td>Simplify given Bill Pugh's observation that counted pointers are unnecessary.</td>
</tr>
</tbody>
</table>

```
*/
```

*Found in path(s):*

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitFreeQueue.java

No license file was found, but licenses were detected in source scan.

```
/*
File: Mutex.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

```

*Found in path(s):*

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/Mutex.java

No license file was found, but licenses were detected in source scan.

```
/*
File: BoundedPriorityQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>16Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25Aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>29Aug1998</td>
<td>dl</td>
<td>pulled heap mechanics into separate class</td>
</tr>
</tbody>
</table>

```

*Found in path(s):*

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
No license file was found, but licenses were detected in source scan.

/*
File: BoundedChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who    What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/BoundedChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who    What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedShort.java
No license file was found, but licenses were detected in source scan.

/*
File: ReentrantWriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>26aug1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>7sep2000</td>
<td>dl</td>
<td>Readers are now also reentrant</td>
</tr>
<tr>
<td>19jan2001</td>
<td>dl</td>
<td>Allow read-&gt;write upgrades if the only reader</td>
</tr>
<tr>
<td>10dec2002</td>
<td>dl</td>
<td>Throw IllegalStateException on extra release</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantWriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: Callable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>30Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Jan1999</td>
<td>dl</td>
<td>Change Exception to Throwable in call signature</td>
</tr>
<tr>
<td>27Jan1999</td>
<td>dl</td>
<td>Undo last change</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Callable.java
No license file was found, but licenses were detected in source scan.

/*
File: PrioritySemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
File: WaitableRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
19Jun1998 dl    Create public version

File: LinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
25aug1998 dl    added peek
10Dec1998 dl    added isEmpty
10Oct1999 dl    lock on node object to ensure visibility

File: ConcurrentHashMap

Written by Doug Lea. Adapted and released, under explicit
permission, from JDK1.2 HashMap.java and Hashtable.java which
carries the following copyright:
* Copyright 1997 by Sun Microsystems, Inc.,
* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
*
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You
* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date       Who                What
26nov2000  dl               Created, based on ConcurrentReaderHashMap
12jan2001  dl               public release
17nov2001  dl               Minor tunings
24oct2003  dl               Segment implements Serializable
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

/*/ File: BoundedBuffer.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
17Jul1998  dl               Simplified by eliminating wait counts
25aug1998  dl               added peek
5May1999   dl               replace % with conditional (slightly faster)
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/BoundedBuffer.java
No license file was found, but licenses were detected in source scan.

/*/ File: SyncSortedSet.java
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
1Aug1998 dl    Create public version

Found in path(s):
*/
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedSet.java
No license file was found, but licenses were detected in source scan.

/*
File: Channel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl   Create public version
25aug1998 dl   added peek

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Channel.java
No license file was found, but licenses were detected in source scan.

/*
File: NullSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
1Aug1998 dl    Create public version

*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
File: QueuedSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who       What
11Jun1998 dl  Create public version
5Aug1998 dl   replaced int counters with longs
24Aug1999 dl  release(n): screen arguments
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/QueuedSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableChar.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who       What
23Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableChar.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
19Jun1998 dl   Create public version
15Apr2003 dl   Removed redundant "synchronized" for multiply()

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedByte.java
No license file was found, but licenses were detected in source scan.

File: WaitableByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
23Jun1998 dl   Create public version
13may2004 dl   Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableByte.java
No license file was found, but licenses were detected in source scan.

File: BoundedLinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl   Create public version
17Jul1998 dl   Simplified by eliminating wait counts
25aug1998 dl   added peek
10oct1999 dl   lock on node object to ensure visibility
27jan2000 dl   setCapacity forces immediate permit reconcile
 */
Found in path(s):
  */opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedLinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: SwingWorker.java

Originally written by Joseph Bowbeer and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.

Originally part of jozart.swingutils.
Adapted for util.concurrent by Joseph Bowbeer.

*/

Found in path(s):
  */opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/SwingWorker.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronousChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998  dl    Create public version
17Jul1998  dl    Disabled direct semaphore permit check
31Jul1998  dl    Replaced main algorithm with one with 
better scaling and fairness properties.
25aug1998  dl    added peek
24Nov2001  dl    Replaced main algorithm with faster one.

*/

Found in path(s):
  */opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronousChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadFactory.java
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
30Jun1998 dl   Create public version
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactory.java
No license file was found, but licenses were detected in source scan.

/*
File: Puttable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Puttable.java
No license file was found, but licenses were detected in source scan.

/*
File: Sync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
5Aug1998 dl   Added some convenient time constants
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

File: WaitableDouble.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
23Jun1998  dl Create public version

File: DirectExecutor.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
21Jun1998  dl Create public version

File: Heap.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.
History:
Date       Who                What
29Aug1998  dl               Refactored from BoundedPriorityQueue
08dec2001  dl               Null out slots of removed items
03feb2002  dl               Also null out in clear

/*
File: ConditionVariable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/CondVar.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncMap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SyncMap.java
No license file was found, but licenses were detected in source scan.
/*
* File: WaitableShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
23Jun1998 dl Create public version
13may2004 dl Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableShort.java
No license file was found, but licenses were detected in source scan.

/*
* File: ReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
* File: SynchronizedFloat.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedFloat.java
No license file was found, but licenses were detected in source scan.

/*
File: FIFOSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/FIFOSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedInt.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedExecutor.java

Open Source Used In OnPrem2.1 2.2 17866
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
21Jun1998  dl   Create public version
28Aug1998  dl   rely on ThreadFactoryUser, restart now public
4May1999   dl   removed redundant interrupt detect
7Sep2000   dl   new shutdown methods
20May2004  dl   can shutdown even if thread not created yet
*/

File: SyncSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
1Aug1998  dl   Create public version
*/

File: SynchronizedBoolean.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
19Jun1998  dl   Create public version
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedBoolean.java
No license file was found, but licenses were detected in source scan.

*/

File: DefaultChannelCapacity.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/DefaultChannelCapacity.java
No license file was found, but licenses were detected in source scan.

*/

File: LinkedNode.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25may2000</td>
<td>dl</td>
<td>Change class access to public</td>
</tr>
<tr>
<td>26nov2001</td>
<td>dl</td>
<td>Added no-arg constructor, all public access.</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedNode.java
No license file was found, but licenses were detected in source scan.

*/

File: ThreadFactoryUser.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date Who What
28aug1998 dl refactored from Executor classes
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactoryUser.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableInt.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date Who What
23Jun1998 dl Create public version
13may2004 dl Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableInt.java
No license file was found, but licenses were detected in source scan.

/*
File: CountDown.java

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History:
Date Who What
11Jun1998 dl Create public version
*/

Found in path(s):
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/*
File: WriterPreferenceReadWriteLock.java

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and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl    Create public version
5Aug1998 dl    replaced int counters with longs
25Aug1998 dl   record writer thread
3May1999 dl    add notifications on interrupt/timeout

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: FJTaskRunnerGroup.java

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History:
Date   Who   What
7Jan1999 dl    First public release
12Jan1999 dl   made getActiveCount public; misc minor cleanup.
14Jan1999 dl   Added executeTask
20Jan1999 dl   Allow use of priorities; reformat stats
6Feb1999 dl    Lazy thread starts
27Apr1999 dl   Renamed

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunnerGroup.java
No license file was found, but licenses were detected in source scan.

version.

All classes are released to the public domain and may be used

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/intro.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/package-summary.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/package.html

No license file was found, but licenses were detected in source scan.

/*
File: Latch.java

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and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Latch.java

No license file was found, but licenses were detected in source scan.

/*
File: Barrier.java

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History:
Date   Who   What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Barrier.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedDouble.java

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History:
Date   Who  What
19Jun1998 dl  Create public version
15Apr2003 dl  Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedDouble.java
No license file was found, but licenses were detected in source scan.

/*
File: Fraction.java

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History:
Date   Who  What
7Jul1998 dl  Create public version
11Oct1999 dl  add hashCode
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/Fraction.java
No license file was found, but licenses were detected in source scan.

/*
File: ObservableSync.java

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### History:

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<th>Date</th>
<th>Who</th>
<th>What</th>
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<tbody>
<tr>
<td>1Aug1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
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/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ObservableSync.java

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File: ConcurrentReaderHashMap

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<th>Who</th>
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<td>28oct1999</td>
<td>dl</td>
<td>Created</td>
</tr>
<tr>
<td>14dec1999</td>
<td>dl</td>
<td>jmm snapshot</td>
</tr>
<tr>
<td>19apr2000</td>
<td>dl</td>
<td>use barrierLock</td>
</tr>
<tr>
<td>12jan2001</td>
<td>dl</td>
<td>public release</td>
</tr>
<tr>
<td>17nov2001</td>
<td>dl</td>
<td>Minor tunings</td>
</tr>
<tr>
<td>20may2002</td>
<td>dl</td>
<td>BarrierLock can now be serialized.</td>
</tr>
<tr>
<td>09dec2002</td>
<td>dl</td>
<td>Fix interference checks.</td>
</tr>
</tbody>
</table>

/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentReaderHashMap.java

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File: SyncCollection.java

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History:
Date   Who       What
1Aug1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/SyncCollection.java
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/
File: BrokenBarrierException.java

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History:
Date   Who       What
29Jun1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/BrokenBarrierException.java
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/
File: WaitableFloat.java

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History:
Date   Who       What
23Jun1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/WaitableFloat.java
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File: SynchronizedChar.java

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History:
Date Who What
19Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedChar.java
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History:
Date Who What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedRef.java
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History:
Date Who What
19Jun1998 dl Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableBoolean.java
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History:
Date    Who    What
30Jun1998 dl Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedVariable.java
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/*
File: CyclicBarrier.java

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History:
Date    Who    What
11Jul1998 dl Create public version
28Aug1998 dl minor code simplification

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CyclicBarrier.java
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File: PropertyChangeMulticaster.java
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This class is based on Sun JDK java.beans.VetoableChangeSupport, which is copyrighted by Sun. (It shares practically no code, but for consistency, the documentation was lifted and adapted here.)

History:
Date   Who    What
14Mar1999 dl  first release
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PropertyChangeMulticaster.java
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/*
File: SyncList.java

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History:
Date   Who    What
1Aug1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncList.java
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;/*
File: CopyOnWriteArraySet.java

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History:
Date   Who    What
22Jun1998 dl  Create public version
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArraySet.java
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Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/TimedCallable.java

TimedCallable.java
Originally written by Joseph Bowbeer and released into the public domain.
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Originally part of jozart.swingutils.
Adapted by Doug Lea for util.concurrent.

History:
Date Who What
11dec1999 dl Adapted for util.concurrent

1.1923 wstx-asl 3.2.1

1.1924 sshpass 1.06 2.el7

1.1924.1 Available under license :

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# Saaj-api

## Saaj-api 1.3.4

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# Cpio

## Cpio 2.11 27.el7

## Cpio 2.11 27.el7

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionCallException.java,v 1.13 2006/05/03 16:07:03 elharo Exp $
 * $Revision: 1.13 $
 * $Date: 2006/05/03 16:07:03 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathExpr.java,v 1.9 2006/05/03 16:07:02 elharo Exp $
* $Revision: 1.9 $
* $SDate: 2006/05/03 16:07:02 $
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*/

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  jar/org/jaxen/expr/DefaultXPathExpr.java
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2006/04/07 23:47:37 elharo Exp $
* $Revision: 1.32 $
* $Date: 2006/04/07 23:47:37 $
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* $Id: XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp $
*/

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  jar/org/jaxen/saxpath/base/XPathReader.java
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*/
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAndExpr.java,v 1.15 2006/05/03
  16:07:02 elharo Exp $
* $Revision: 1.15 $
* $Date: 2006/05/03 16:07:02 $
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* $Revision: 1.14 $
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jar/org/jaxen/function/LangFunction.java

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.5 2006/02/05 21:47:40 elharo Exp $
 * $Revision: 1.5 $
 * $Date: 2006/02/05 21:47:40 $
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* $Id: UnaryExpr.java,v 1.6 2006/02/05 21:47:40 elharo Exp $
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  jar/org/jaxen/JaxenRuntimeException.java
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/JaxenConstants.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternParser.java,v 1.18 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.18 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/xom/DocumentNavigator.java,v 1.8 2006/05/03
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* jar/org/jaxen/xom/DocumentNavigator.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FloorFunction.java,v 1.11 2006/02/05
* 21:47:41 elharo Exp $
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* jar/org/jaxen/function/FloorFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05
* 21:47:42 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/pattern/NodeTypeTest.java

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$Id$

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAbsoluteLocationPath.java,v 1.17 2006/05/03 16:07:02 elharo Exp $
 * $Revision: 1.17 $
 * $Date: 2006/05/03 16:07:02 $
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* $Id: DocumentNavigator.java,v 1.31 2006/05/03 16:07:03 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/jdom/DocumentNavigator.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabean/JavaBeanXPath.java,v 1.6 2006/05/03 16:07:04 elharo Exp $  
 * $Revision: 1.6 $  
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 * $Id: JavaBeanXPath.java,v 1.6 2006/05/03 16:07:04 elharo Exp $
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* $Id: UnsupportedAxisException.java,v 1.10 2006/05/03 16:07:03 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLogicalExpr.java,v 1.8 2006/02/05
  21:47:40 elharo Exp $
* $Revision: 1.8 $
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  jar/org/jaxen/expf/DefaultNameStep.java
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21:47:41 elharo Exp $
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* $Id: IterableDescendantAxis.java,v 1.7 2006/05/03 16:07:03 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/expr/iter/IterableDescendantAxis.java

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elharo Exp $
* $Revision: 1.29 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: Navigator.java,v 1.29 2006/02/05 21:47:41 elharo Exp$
*/

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/Navigator.java
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* $Id: PrecedingAxisIterator.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/util/PrecedingAxisIterator.java
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* $Id: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/function/ext/UpperFunction.java
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* $Revision: 1.7 $
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* $Id: IterableNamespaceAxis.java,v 1.7 2006/05/03 16:07:03 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/expr/iter/IterableNamespaceAxis.java
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$Id: AnyChildNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PredicateSet.java,v 1.22 2006/05/03 16:07:02 elharo Exp $
 * $Revision: 1.22 $
 * $Date: 2006/05/03 16:07:02 $
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* $Id: PredicateSet.java,v 1.22 2006/05/03 16:07:02 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/PredicateSet.java
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* $Header: /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/PredicateSet.java,v 1.22 2006/05/03 16:07:02 elharo Exp $ 
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 * $Revision: 1.10 $ 
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* $Id: Step.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
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* $Id: SimpleNamespaceContext.java,v 1.18 2006/05/03 16:07:03 elharo Exp$
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/SimpleNamespaceContext.java
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* $Id: XPathFactory.java,v 1.11 2006/02/05 21:47:40 elharo Exp $
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Found in path(s):
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
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* $Id: DefaultEqualsExpr.java,v 1.12 2006/05/03 16:07:02 elharo Exp $  
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* $Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
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  jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableSelfAxis.java,v 1.7 2006/05/03
  16:07:03 elharo Exp $ *
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* $Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
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* $Id: VariableReferenceExpr.java,v 1.7 2006/02/05 21:47:40 elharo Exp $
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* $Id: JDOMXPath.java,v 1.8 2006/05/03 16:07:03 elharo Exp $
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* $Id: SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
* /

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  jar/org/jaxen/function/SubstringAfterFunction.java
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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/saxpath/SAXPathEventSource.java

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* $Id: MultiplicativeExpr.java,v 1.4 2006/02/05 21:47:40 elharo Exp $
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  jar/org/jaxen/expr/MultiplicativeExpr.java
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* jar/org/jaxen/function/NumberFunction.java
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* $Id: DefaultPathExpr.java,v 1.14 2006/05/03 16:07:02 elharo Exp $
*/

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* $Id: IterablePrecedingAxis.java,v 1.7 2006/05/03 16:07:03 elharo Exp $
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*  
* $Id: FunctionContext.java,v 1.10 2006/02/05 21:47:41 elharo Exp $  
* /

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 * 2006/02/05 21:47:40 elharo Exp $
 * $Revision: 1.13 $
 * $Date: 2006/02/05 21:47:40 $
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* $Id: Predicated.java,v 1.8 2006/02/05 21:47:40 elharo Exp $
*/

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* 2006/05/03 16:07:02 elharo Exp $
* $Revision: 1.13 $
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$Id: DefaultGreaterThanExpr.java,v 1.13 2006/05/03 16:07:02 elharo Exp $

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/ /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
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-$Id: DefaultCommentNodeStep.java,v 1.13 2006/05/03 16:07:02 elharo Exp$
*/

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* *
* $Id: DefaultUnionExpr.java,v 1.16 2006/05/03 16:07:02 elharo Exp $
* /

Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
* jar/org/jaxen/expr/DefaultUnionExpr.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.34 2006/05/01
* 11:25:38 elharo Exp $
* $Revision: 1.34 $
* $Date: 2006/05/01 11:25:38 $
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*
* $Id: StringFunction.java,v 1.34 2006/05/01 11:25:38 elharo Exp $
*/

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* $Id: DefaultNotEqualsExpr.java,v 1.13 2006/05/03 16:07:02 elharo Exp $
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jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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* $Id: StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
*/

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* $Id: DefaultPredicate.java,v 1.12 2006/05/03 16:07:02 elharo Exp $  
* */  

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-  
  jar/org/jaxen/expr/DefaultPredicate.java  
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* $Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
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* $Id: DescendantAxisIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
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  jar/org/jaxen/util/DescendantAxisIterator.java
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* $Id: QualifiedName.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/QualifiedName.java
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2006/05/03 16:07:02 elharo Exp $
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* $Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/function/StartsWithFunction.java

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  * $Id: FunctionCallExpr.java,v 1.7 2006/02/05 21:47:40 elharo Exp $
  */

Found in path(s):
  * /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
    jar/org/jaxen/expr/FunctionCallExpr.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PathExpr.java,v 1.6 2006/02/05 21:47:40
 * elharo Exp $
 * $Revision: 1.6 $
 * $Date: 2006/02/05 21:47:40 $
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* $Id: PathExpr.java,v 1.6 2006/02/05 21:47:40 elharo Exp $
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*/

Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/PathExpr.java
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* $Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $  
*/  

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/DefaultAdditiveExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelativeLocationPath.java,v 1.12 2006/05/03 16:07:02 elharo Exp $
* $Revision: 1.12 $
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* $Id: DefaultRelativeLocationPath.java,v 1.12 2006/05/03 16:07:02 elharo Exp $
Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1.1-beta-9-sources-3-
  jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleVariableContext.java,v 1.19 2006/05/03
  16:07:03 elharo Exp $
* $Revision: 1.19 $
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* $Id: SimpleVariableContext.java,v 1.19 2006/05/03 16:07:03 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/SimpleVariableContext.java

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* 2006/02/05 21:47:42 elharo Exp $
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* $Id: XPathSyntaxException.java,v 1.12 2006/05/03 16:07:03 elharo Exp$
*/

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/XPathSyntaxException.java

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  jar/org/jaxen/saxpath/SAXPathException.java
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  21:47:40 elharo Exp $
* $Revision: 1.6 $
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* 16:07:02 elharo Exp $
* $Revision: 1.15 $
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$Id: DefaultUnaryExpr.java,v 1.15 2006/05/03 16:07:02 elharo Exp $
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jar/org/jaxen/expr/DefaultUnaryExpr.java
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* $Id: DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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 * $Revision: 1.7 $
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Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/pattern/NameTest.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LocationPath.java,v 1.8 2006/02/05 21:47:40 elharo Exp $
 * $Revision: 1.8 $
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* $Id: PrecedingSiblingAxisIterator.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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* $Id: TokenTypes.java,v 1.12 2006/02/05 21:47:42 elharo Exp $
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Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/saxpath/base/TokenTypes.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLocationPath.java,v 1.29
  2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.29 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
jar/org/jaxen/expr/DefaultLocationPath.java
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2006/05/03 16:07:02 elharo Exp $
* $Revision: 1.13 $
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* $Id: DefaultMultiplyExpr.java,v 1.13 2006/05/03 16:07:02 elharo Exp $
*/

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/expr/DefaultMultiplyExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingleObjectIterator.java,v 1.6 2006/02/05
  21:47:40 elharo Exp $ 
* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: SingleObjectIterator.java,v 1.6 2006/02/05 21:47:40 elharo Exp $
 */

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  * /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
    jar/org/jaxen/util/SingleObjectIterator.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/ProcessingInstructionNodeStep.java,v 1.4
  2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.4 $
* $Date: 2006/02/05 21:47:40 $
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/*
$Id: ContextSupport.java,v 1.12 2006/05/03 16:07:03 elharo Exp $

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$Id: XPath.java,v 1.11 2006/02/05 21:47:41 elharo Exp $

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* $Id: XPathLexer.java,v 1.17 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3- jar/org/jaxen/saxpath/base/XPathLexer.java
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$Id: MatrixConcatFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp $

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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom4j/Dom4jXPath.java,v 1.8 2006/05/03 16:07:03 elharo Exp $
 * $Revision: 1.8 $
 * $Date: 2006/05/03 16:07:03 $
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* $Id: Dom4jXPath.java,v 1.8 2006/05/03 16:07:03 elharo Exp $*/

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.10 2006/02/05 21:47:40 elharo Exp $*
* $Revision: 1.10 $
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* $Id: DefaultNavigator.java,v 1.19 2006/02/05 21:47:41 elharo Exp $
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* $Id: FilterExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
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* $Date: 2006/02/05 21:47:40 $
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* $Id: XPathExpr.java,v 1.6 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/XPathExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingletonList.java,v 1.3 2006/02/05
21:47:40 elharo Exp $
* $Revision: 1.3 $
* $Date: 2006/02/05 21:47:40 $
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$Id: SingletonList.java,v 1.3 2006/02/05 21:47:40 elharo Exp $

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 * $Revision: 1.12 $
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* $Id: StringLengthFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
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* $Id: Visitor.java,v 1.4 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/Visitor.java
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* $Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/pattern/LocationPathPattern.java
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* $Id: CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
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* $Id: DefaultXPathFactory.java,v 1.15 2006/02/05 21:47:40 elharo Exp $
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* $Id: DefaultProcessingInstructionNodeStep.java,v 1.16 2006/05/03 16:07:02 elharo Exp $
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 * $Revision: 1.7 $
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jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java 
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* $Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*

Found in path(s):
* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
jar/org/jaxen/function/xslt/DocumentFunction.java

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16:07:02 elharo Exp $
* $Revision: 1.14 $
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* $Id: DefaultModExpr.java,v 1.14 2006/05/03 16:07:02 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/expr/DefaultModExpr.java
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/ *
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/TextNodeStep.java,v 1.5 2006/02/05
  21:47:40 elharo Exp $
* $Revision: 1.5 $
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* jar/org/jaxen/expr/TextNodeStep.java
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* $Id: NamedAccessNavigator.java,v 1.4 2006/02/05 21:47:41 elharo Exp $
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* $Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/TextNodeTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.6 $
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* $Id: ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/BaseXPath.java,v 1.50 2006/05/03 16:07:03
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* $Revision: 1.50 $
* $Date: 2006/05/03 16:07:03 $
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* $Id: AnyNodeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* $Id: UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/pattern/UnionPattern.java
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/ *
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
  jar/org/jaxen/function/ext/LowerFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/CommentNodeStep.java,v 1.5 2006/02/05
  21:47:40 elharo Exp $
* $Revision: 1.5 $
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  jar/org/jaxen/expr/DefaultBinaryExpr.java

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  21:47:40 elharo Exp $
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* $Id: DefaultLiteralExpr.java,v 1.11 2006/05/03 16:07:02 elharo Exp $
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
jar/org/jaxen/expr/DefaultLiteralExpr.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DOMXPath.java,v 1.10 2006/05/03 16:07:03 elharo Exp $
 * $Revision: 1.10 $
 * $Date: 2006/05/03 16:07:03 $
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2006/05/03 16:07:03 elharo Exp $
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* $Id: Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp$
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-
* jar/org/jaxen/saxpath/base/Token.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AdditiveExpr.java,v 1.4 2006/02/05
* 21:47:40 elharo Exp$
* $Revision: 1.4$
* $Date: 2006/02/05 21:47:40$
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* /opt/cola/permits/1140699128_1614871950.19/0/jaxen-1-1-beta-9-sources-3-jar/org/jaxen/expr/AdditiveExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NumberExpr.java,v 1.7 2006/02/05
21:47:40 elharo Exp $ *$Revision: 1.7 $ *
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* $Revision: 1.4 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathReader.java,v 1.6 2006/02/05
21:47:42 elharo Exp $
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```
# ===========================================================================
#             http://autoconf-archive.cryp.to/ax_compare_version.html
# ===========================================================================
#
# SYNOPSIS
#
# AX_COMPARE_VERSION(VERSION_A, OP, VERSION_B, [ACTION-IF-TRUE], [ACTION-IF-FALSE])
#
# DESCRIPTION
#
# This macro compares two version strings. Due to the various number of
# minor-version numbers that can exist, and the fact that string
# comparisons are not compatible with numeric comparisons, this is not
# necessarily trivial to do in a autoconf script. This macro makes doing
# these comparisons easy.
#
# The six basic comparisons are available, as well as checking equality
# limited to a certain number of minor-version levels.
#
# The operator OP determines what type of comparison to do, and can be one
# of:
#
# eq - equal (test A == B)
# ne - not equal (test A != B)
# le - less than or equal (test A <= B)
# ge - greater than or equal (test A >= B)
# lt - less than (test A < B)
# gt - greater than (test A > B)

# Additionally, the eq and ne operator can have a number after it to limit
# the test to that number of minor versions.
#
# eq0 - equal up to the length of the shorter version
# ne0 - not equal up to the length of the shorter version
# eqN - equal up to N sub-version levels
# neN - not equal up to N sub-version levels

# When the condition is true, shell commands ACTION-IF-TRUE are run,
# otherwise shell commands ACTION-IF-FALSE are run. The environment
# variable 'ax_compare_version' is always set to either 'true' or 'false'
# as well.
#
# Examples:
#
# AX_COMPARE_VERSION([3.15.7],[lt],[3.15.8])
```
AX_COMPARE_VERSION([3.15],[lt],[3.15.8])
#  would both be true.
#
AX_COMPARE_VERSION([3.15.7],[eq],[3.15.8])
AX_COMPARE_VERSION([3.15],[gt],[3.15.8])
#  would both be false.
#
AX_COMPARE_VERSION([3.15.7],[eq2],[3.15.8])
#  would be true because it is only comparing two minor versions.
#
AX_COMPARE_VERSION([3.15.7],[eq0],[3.15])
#  would be true because it is only comparing the lesser number of minor
#  versions of the two values.
#
Note: The characters that separate the version numbers do not matter. An
empty string is the same as version 0. OP is evaluated by autoconf, not
configure, so must be a string, not a variable.
#
The author would like to acknowledge Guido Draheim whose advice about
the m4_case and m4_ifvaln functions make this macro only include the
portions necessary to perform the specific comparison specified by the
OP argument in the final configure script.
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and this notice are preserved.

dnl #########################################################################
AC_DEFUN([AX_COMPARE_VERSION], [
    AC_PROG_AWK
]
# Used to indicate true or false condition
ax_compare_version=false

# Convert the two version strings to be compared into a format that
# allows a simple string comparison. The end result is that a version
# string of the form 1.12.5-r617 will be converted to the form
# 0001001200050617. In other words, each number is zero padded to four
# digits, and non digits are removed.
AS_VAR_PUSHDEF([A],[ax_compare_version_A])
A=`echo "$1" | sed -e 's/[([0-9]*))/Z\1Z/g' \n-e 's/Z([([0-9]*))/ZZ0\1Z/g' \n-e 's/Z([([0-9]*))[([0-9]*))/ZZ01Z/g' \n-e 's/Z([([0-9]*))[([0-9]*)][([0-9]*))/ZZ01Z/g' \n-e 's/([^0-9]*))/g'` AS_VAR_PUSHDEF([B],[ax_compare_version_B])
B=`echo "$3" | sed -e 's/[([0-9]*))/Z\1Z/g' \n-e 's/Z([([0-9]*))/Z0\1Z/g' \n-e 's/Z([([0-9]*))[([0-9]*))/Z0\1Z/g' \n-e 's/Z([([0-9]*))[([0-9]*)][([0-9]*))/Z0\1Z/g' \n-e 's/([^0-9]*))/g'` dnl # In the case of le, ge, lt, and gt, the strings are sorted as necessary dnl # then the first line is used to determine if the condition is true. dnl # The sed right after the echo is to remove any indented white space. m4_case(m4_tolower($2), [lt],[ ax_compare_version=`echo "x$A \nx$B" | sed 's/^ *//' | sort -r | sed "s/x${A}/false/;s/x${B}/true/;1q"` ], [gt],[ ax_compare_version=`echo "x$A \nx$B" | sed 's/^ *//' | sort | sed "s/x${A}/false/;s/x${B}/true/;1q"` ], [le],[ ax_compare_version=`echo "x$A \nx$B" | sed 's/^ *//' | sort | sed "s/x${A}/true/;s/x${B}/false/;1q"` ], [ge],[ ax_compare_version=`echo "x$A \nx$B" | sed 's/^ *//' | sort -r | sed "s/x${A}/true/;s/x${B}/false/;1q"` ]) dnl Split the operator from the subversion count if present. m4_bmatch(m4_substr($2,2), [0],[ # A count of zero means use the length of the shorter version. # Determine the number of characters in A and B. ax_compare_version_len_A=`echo "$A" | $AWK '{print(length)}'` ax_compare_version_len_B=`echo "$B" | $AWK '{print(length)}'` # Set A to no more than B's length and B to no more than A's length. A=`echo "$A" | sed 's/(.*)\$ax_compare_version_len_A\)/$ax_compare_version_len_B\)/.*\1/'` B=`echo "$B" | sed 's/(.*)\$ax_compare_version_len_B\)/$ax_compare_version_len_A\)/.*\1/'` ], [0-9]+],[ # A count greater than zero means use only that many subversions A=`echo "$A" | sed 's/(.*)\{m4_substr($2,2)\}\)/\1/.*\1/'`
B=`echo "$B" | sed "s/\([0-9]\]\{4\}\{m4_substr\($2,2\)\}\).*/\1/"
[.+][
AC_WARNING(
 [illegal OP numeric parameter: $2])
)]

# Pad zeros at end of numbers to make same length.
ax_compare_version_tmp_A="$A`echo $B | sed 's/./0/g'`"
B="$B`echo $A | sed 's/./0/g'`"
A="$ax_compare_version_tmp_A"

# Check for equality or inequality as necessary.
m4_case(m4_tolower(m4_substr($2,0,2)),
[eq],[
 test "x$A" = "x$B" & & ax_compare_version=true
 ],
[ne],[
 test "x$A" != "x$B" & & ax_compare_version=true
 ],
AC_WARNING([illegal OP parameter: $2])
])
]
)
)

AS_VAR_POPDEF([A])dnl
AS_VAR_POPDEF([B])dnl

dnl # Execute ACTION-IF-TRUE / ACTION-IF-FALSE.
if test "$ax_compare_version" = "true" ; then
 m4_ifvaln([$4],[$4],[:])dnl
 m4_ifvaln([$5],[else $5])dnl
fi
) dnl AX_COMPARE_VERSION

Found in path(s):
* /opt/cola/permits/1148332141_1619430820.99/0xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-epqQtMyt xcb-util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFfLph xcb-util-keysyms-0.4.0/m4.ax_compare_version.m4
No license file was found, but licenses were detected in source scan.

Name:xcb-util-keysyms
Version:0.4.0
Release:1% (?dist)
Summary:Standard X key constants and keycodes conversion on top of libxcb
Group:System Environment/Libraries
License:MIT
URL:http://xcb.freedesktop.org
Source0:http://xcb.freedesktop.org/dist/%{name}-%{version}.tar.bz2
BuildRequires: pkgconfig(xcb-util) >= 0.3.8
BuildRequires: m4

%description
XCB util-keysyms module provides the following library:

- keysyms: Standard X key constants and conversion to/from keycodes.

%package devel
Summary: Development and header files for xcb-util-keysyms
Group: System Environment/Libraries
Requires: %{name}%{?_isa} = %{version}-%{release}

%description devel
Development files for xcb-util-keysyms.

%prep
%setup -q

%build
%configure --with-pic --disable-static --disable-silent-rules
make %{?_smp_mflags}

%check
make check

%install
make install DESTDIR=%{buildroot} INSTALL="install -p"
rm %{buildroot}%{_libdir}/*.la

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%files
%doc README
%{_libdir}/*so.*

%files devel
%doc NEWS
%{_libdir}/pkgconfig/*.pc
%{_libdir}/*.so
%{_includedir}/xcb/*.h

%changelog
* Sat Oct 11 2014 Thomas Moschny <thomas.moschny@gmx.de> - 0.4.0-1
  - Update to 0.4.0.

* Mon Aug 18 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sun Jun 08 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Mon Aug 20 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.9-1
  - Update to 0.3.9.

* Sun Jul 22 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.8-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Apr 6 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-3
  - Fix explicit requires.

* Tue Mar 13 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-2
  - Specfile cleanups suggested in the review.

* Mon Dec 5 2011 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-1
  - New package.

Found in path(s):
* /opt/cola/permits/1148332141_1619430820.99/0/xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-epqQtMyt/xcb-util-keysyms.spec
No license file was found, but licenses were detected in source scan.

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 * Copyright © 2008 Jamey Sharp <jamey@minilop.net>
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 * Copyright © 2008 Ulrich Eckhardt <doomster@knuut.de>
 */
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Installation Instructions
**************************


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Basic Installation
==================

Briefly, the shell commands `./configure; make; make install` should configure, build, and install this package. The following more-detailed instructions are generic; see the `README` file for...
instructions specific to this package. Some packages provide this `INSTALL' file but do not implement all of the features documented below. The lack of an optional feature in a given package is not necessarily a bug. More recommendations for GNU packages can be found in *note Makefile Conventions: (standards)Makefile Conventions.

The `configure' shell script attempts to guess correct values for various system-dependent variables used during compilation. It uses those values to create a `Makefile' in each directory of the package. It may also create one or more `.h' files containing system-dependent definitions. Finally, it creates a shell script `config.status' that you can run in the future to recreate the current configuration, and a file `config.log' containing compiler output (useful mainly for debugging `configure').

It can also use an optional file (typically called `config.cache' and enabled with `--cache-file=config.cache' or simply `--C') that saves the results of its tests to speed up reconfiguring. Caching is disabled by default to prevent problems with accidental use of stale cache files.

If you need to do unusual things to compile the package, please try to figure out how `configure' could check whether to do them, and mail diffs or instructions to the address given in the `README' so they can be considered for the next release. If you are using the cache, and at some point `config.cache' contains results you don't want to keep, you may remove or edit it.

The file `configure.ac' (or `configure.in') is used to create `configure' by a program called `autoconf'. You need `configure.ac' if you want to change it or regenerate `configure' using a newer version of `autoconf'.

The simplest way to compile this package is:

1. `cd' to the directory containing the package's source code and type `./configure' to configure the package for your system.

   Running `configure' might take a while. While running, it prints some messages telling which features it is checking for.

2. Type `make' to compile the package.

3. Optionally, type `make check' to run any self-tests that come with the package, generally using the just-built uninstalled binaries.

4. Type `make install' to install the programs and any data files and documentation. When installing into a prefix owned by root, it is
recommended that the package be configured and built as a regular user, and only the `make install' phase executed with root privileges.

5. Optionally, type `make installcheck' to repeat any self-tests, but this time using the binaries in their final installed location. This target does not install anything. Running this target as a regular user, particularly if the prior `make install' required root privileges, verifies that the installation completed correctly.

6. You can remove the program binaries and object files from the source code directory by typing `make clean'. To also remove the files that `configure' created (so you can compile the package for a different kind of computer), type `make distclean'. There is also a `make maintainer-clean' target, but that is intended mainly for the package's developers. If you use it, you may have to get all sorts of other programs in order to regenerate files that came with the distribution.

7. Often, you can also type `make uninstall' to remove the installed files again. In practice, not all packages have tested that uninstallation works correctly, even though it is required by the GNU Coding Standards.

8. Some packages, particularly those that use Automake, provide `make distcheck', which can be used by developers to test that all other targets like `make install' and `make uninstall' work correctly. This target is generally not run by end users.

Compilers and Options
=======================

Some systems require unusual options for compilation or linking that the `configure' script does not know about. Run `./configure --help' for details on some of the pertinent environment variables.

You can give `configure' initial values for configuration parameters by setting variables in the command line or in the environment. Here is an example:

`/configure CC=c99 CFLAGS=-g LIBS=-lposix

*Note Defining Variables::, for more details.

Compiling For Multiple Architectures
==================================
You can compile the package for more than one kind of computer at the same time, by placing the object files for each architecture in their own directory. To do this, you can use GNU `make'. `cd' to the directory where you want the object files and executables to go and run the `configure' script. `configure' automatically checks for the source code in the directory that `configure' is in and in `..'. This is known as a "VPATH" build.

With a non-GNU `make', it is safer to compile the package for one architecture at a time in the source code directory. After you have installed the package for one architecture, use `make distclean' before reconfiguring for another architecture.

On MacOS X 10.5 and later systems, you can create libraries and executables that work on multiple system types--known as "fat" or "universal" binaries--by specifying multiple `-arch' options to the compiler but only a single `-arch' option to the preprocessor. Like this:

```
./configure CC="gcc -arch i386 -arch x86_64 -arch ppc -arch ppc64"\  
CXX="g++ -arch i386 -arch x86_64 -arch ppc -arch ppc64"\  
CPP="gcc -E" CXXCPP="g++ -E"
```

This is not guaranteed to produce working output in all cases, you may have to build one architecture at a time and combine the results using the `lipo' tool if you have problems.

Installation Names
==================

By default, `make install' installs the package's commands under `/usr/local/bin', include files under `/usr/local/include', etc. You can specify an installation prefix other than `/usr/local' by giving `configure' the option `--prefix=PREFIX', where PREFIX must be an absolute file name.

You can specify separate installation prefixes for architecture-specific files and architecture-independent files. If you pass the option `--exec-prefix=PREFIX' to `configure', the package uses PREFIX as the prefix for installing programs and libraries. Documentation and other data files still use the regular prefix.

In addition, if you use an unusual directory layout you can give options like `--bindir=DIR' to specify different values for particular kinds of files. Run `configure --help' for a list of the directories you can set and what kinds of files go in them. In general, the default for these options is expressed in terms of `$(prefix)', so that specifying just `--prefix' will affect all of the other directory
specifications that were not explicitly provided.

The most portable way to affect installation locations is to pass the correct locations to `configure': however, many packages provide one or both of the following shortcuts of passing variable assignments to the `make install' command line to change installation locations without having to reconfigure or recompile.

The first method involves providing an override variable for each affected directory. For example, `make install prefix=/alternate/directory' will choose an alternate location for all directory configuration variables that were expressed in terms of `${prefix}'. Any directories that were specified during `configure', but not in terms of `${prefix}', must each be overridden at install time for the entire installation to be relocated. The approach of makefile variable overrides for each directory variable is required by the GNU Coding Standards, and ideally causes no recompilation. However, some platforms have known limitations with the semantics of shared libraries that end up requiring recompilation when using this method, particularly noticeable in packages that use GNU Libtool.

The second method involves providing the `DESTDIR' variable. For example, `make install DESTDIR=/alternate/directory' will prepend `/alternate/directory' before all installation names. The approach of `DESTDIR' overrides is not required by the GNU Coding Standards, and does not work on platforms that have drive letters. On the other hand, it does better at avoiding recompilation issues, and works well even when some directory options were not specified in terms of `${prefix}' at `configure' time.

Optional Features
=================

If the package supports it, you can cause programs to be installed with an extra prefix or suffix on their names by giving `configure' the option `--program-prefix=PREFIX' or `--program-suffix=SUFFIX'.

Some packages pay attention to `--enable-FEATURE' options to `configure', where FEATURE indicates an optional part of the package. They may also pay attention to `--with-PACKAGE' options, where PACKAGE is something like `gnu-as' or `x' (for the X Window System). The `README' should mention any `--enable-' and `--with-' options that the package recognizes.

For packages that use the X Window System, `configure' can usually find the X include and library files automatically, but if it doesn't, you can use the `configure' options `--x-includes=DIR' and `--x-libraries=DIR' to specify their locations.
Some packages offer the ability to configure how verbose the execution of `make' will be. For these packages, running `.configure --enable-silent-rules' sets the default to minimal output, which can be overridden with `make V=1'; while running `.configure --disable-silent-rules' sets the default to verbose, which can be overridden with `make V=0'.

Particular systems
==================

On HP-UX, the default C compiler is not ANSI C compatible. If GNU CC is not installed, it is recommended to use the following options in order to use an ANSI C compiler:

```
./configure CC="cc -Ae -D_XOPEN_SOURCE=500"
```

and if that doesn't work, install pre-built binaries of GCC for HP-UX.

HP-UX `make' updates targets which have the same time stamps as their prerequisites, which makes it generally unusable when shipped generated files such as `configure' are involved. Use GNU `make' instead.

On OSF/1 a.k.a. Tru64, some versions of the default C compiler cannot parse its `<wchar.h>' header file. The option `-nodtk' can be used as a workaround. If GNU CC is not installed, it is therefore recommended to try

```
./configure CC="cc"
```

and if that doesn't work, try

```
./configure CC="cc -nodtk"
```

On Solaris, don't put `/usr/ucb' early in your `PATH'. This directory contains several dysfunctional programs; working variants of these programs are available in `/usr/bin'. So, if you need `/usr/ucb' in your `PATH', put it _after_ `/usr/bin'.

On Haiku, software installed for all users goes in `/boot/common', not `/usr/local'. It is recommended to use the following options:

```
./configure --prefix=/boot/common
```

Specifying the System Type
==========================
There may be some features `configure' cannot figure out automatically, but needs to determine by the type of machine the package will run on. Usually, assuming the package is built to be run on the same architectures, `configure' can figure that out, but if it prints a message saying it cannot guess the machine type, give it the --build=TYPE option. TYPE can either be a short name for the system type, such as `sun4', or a canonical name which has the form:

CPU-COMPANY-SYSTEM

where SYSTEM can have one of these forms:

OS
KERNEL-OS

See the file `config.sub' for the possible values of each field. If `config.sub' isn't included in this package, then this package doesn't need to know the machine type.

If you are building compiler tools for cross-compiling, you should use the option `--target=TYPE' to select the type of system they will produce code for.

If you want to use a cross compiler, that generates code for a platform different from the build platform, you should specify the "host" platform (i.e., that on which the generated programs will eventually be run) with `--host=TYPE'.

Sharing Defaults
================

If you want to set default values for `configure' scripts to share, you can create a site shell script called `config.site' that gives default values for variables like `CC', `cache_file', and `prefix'. `configure' looks for `PREFIX/share/config.site' if it exists, then `PREFIX/etc/config.site' if it exists. Or, you can set the CONFIG_SITE environment variable to the location of the site script. A warning: not all `configure' scripts look for a site script.

Defining Variables
==================

Variables not defined in a site shell script can be set in the environment passed to `configure'. However, some packages may run configure again during the build, and the customized values of these variables may be lost. In order to avoid this problem, you should set them in the `configure' command line, using `VAR=value'. For example:
/configure CC=/usr/local2/bin/gcc

causes the specified `gcc' to be used as the C compiler (unless it is
overridden in the site shell script).

Unfortunately, this technique does not work for `CONFIG_SHELL' due to
an Autoconf bug. Until the bug is fixed you can use this workaround:

   CONFIG_SHELL=/bin/bash /bin/bash /configure CONFIG_SHELL=/bin/bash

`configure' Invocation

`configure' recognizes the following options to control how it
operates.

`--help'
`-h'

Print a summary of all of the options to `configure', and exit.

`--help=short'
`--help=recursive'

Print a summary of the options unique to this package's
`configure', and exit. The `short' variant lists options used
only in the top level, while the `recursive' variant lists options
also present in any nested packages.

`--version'
`-V'

Print the version of Autoconf used to generate the `configure'
script, and exit.

`--cache-file=FILE'

Enable the cache: use and save the results of the tests in FILE,
traditionally `config.cache'. FILE defaults to `~/dev/null' to
disable caching.

`--config-cache'
`-C'

Alias for `--cache-file=config.cache'.

`--quiet'
`--silent'
`-q'

Do not print messages saying which checks are being made. To
suppress all normal output, redirect it to `~/dev/null' (any error
messages will still be shown).
`--srcdir=DIR'
Look for the package's source code in directory DIR. Usually
`configure' can determine that directory automatically.

`--prefix=DIR'
Use DIR as the installation prefix. *note Installation Names::
for more details, including other options available for fine-tuning
the installation locations.

`--no-create'
`-n'
Run the configure checks, but stop before creating any output
files.

`configure' also accepts some other, not widely useful, options. Run
`configure --help' for more details.

Found in path(s):
* /opt/cola/permits/1148332141_1619430820.99/0/xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-
  epqQtMyt/xcb-util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFfLph/xcb-util-keysyms-0.4.0/INSTALL

1.1951 junit-platform-commons 1.7.0
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1.1968 activemq-amqp 5.12.0

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1.1971 axiom-impl 1.2.15

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1.1973 spring-expression 5.2.9.RELEASE

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package com.bea.jvm;
public interface ClassLibrary {

    public ClassPreProcessor getClassPreProcessor() throws NotAvailableException;

    public void setClassPreProcessor (ClassPreProcessor classPreProcessor);
}

1.1985 bouncy-castle 1.39

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
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Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
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Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
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Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
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Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
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Kazik, Duan
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Kramer, Jakob
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Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
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Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
1.1989 xerces-j 2.6.2

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1.1990 hibernate-entitymanager 3.5.6-Final

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1.1991 nettle 2.7.1 8.el7

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Version 2.1, February 1999

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abstract: 'alternative warn and die for modules'
author:
- unknown
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configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
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  version: 1.4
name: Carp
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  - t
  - inc
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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";
# cluck not exported by default
use Carp qw(cluck);
    cluck "This is how we got here!";

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use Carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace. See the section on GLOBAL VARIABLES below.

Here is a more complete description of how carp and croak work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4
=item 1.
Any call from a package to itself is safe.

=item 2.
Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in Carp_NOT, or (if that array is empty) ISA. The ability to override what ISA says is new in 5.8.

=item 3.
The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override ISA with Carp_NOT, then this trust relationship is identical to, "inherits from".

=item 4.
Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of C<0> to show all text.

Defaults to C<0>.

=head2 $Carp::MaxArgLen
This variable determines how many characters of each argument to a function to print. Use a value of C<0> to show the full length of the argument.

Defaults to C<64>.

=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a value of C<0> to show all arguments to a function call.

Defaults to C<8>.

=head2 $Carp::Verbose

This variable makes C<carp> and C<croak> generate stack backtraces just like C<cluck> and C<confess>. This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

    # These work
    our @CARP_NOT; # file scope
    use vars qw(@CARP_NOT); # package scope
    @My::Package::CARP_NOT = ... ; # explicit package variable

    # These don't work
    sub xyz { ... @CARP_NOT = ... } # w/o declarations above
    my @CARP_NOT; # even at top-level

Example of use:

    package My::Carping::Package;
    use Carp;
    our @CARP_NOT;
    sub bar { ... or _error('Wrong input') }
    sub _error {
      # temporary control of where'ness, __PACKAGE__ is implicit
      local @CARP_NOT = qw(My::Friendly::Caller);
      carp(@_)
This would make \texttt{C<Carp>} report the error as coming from a caller not in \texttt{C<My::Carping::Package>}, nor from \texttt{C<My::Friendly::Caller>}.

Also read the \texttt{L</DESCRIPTION>} section above, about how \texttt{C<Carp>} decides where the error is reported from.

Use \texttt{C<@CARP\_NOT>}, instead of \texttt{C<$Carp::CarpLevel>}.

Overrides \texttt{C<Carp>'s} use of \texttt{C<@ISA>}.

\texttt{=head2 \%Carp::Internal}

This says what packages are internal to Perl. \texttt{C<Carp>} will never report an error as being from a line in a package that is internal to Perl. For example:

\begin{verbatim}
$Carp::Internal{ (_PACKAGE_) }++; 
# time passes... 
sub foo { ... or confess("whatever") };
\end{verbatim}

would give a full stack backtrace starting from the first caller outside of \texttt{__PACKAGE__}. (Unless that package was also internal to Perl.)

\texttt{=head2 \%Carp::CarpInternal}

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in \texttt{C<%Carp::CarpInternal>}. But it is slightly different for the summary message generated by \texttt{C<carp>} or \texttt{C<croak>}. There errors will not be reported on any lines that are calling packages in \texttt{C<%Carp::CarpInternal>}.

For example \texttt{C<Carp>} itself is listed in \texttt{C<%Carp::CarpInternal>}. Therefore the full stack backtrace from \texttt{C<confess>} will not start inside of \texttt{C<Carp>}, and the short message from calling \texttt{C<croak>} is not placed on the line where \texttt{C<croak>} was called.

\texttt{=head2 $Carp::CarpLevel}

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of \texttt{C<Carp>}'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls
that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that Carp goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid Carp::CarpLevel. Instead use Carp::CARP_NOT, Carp::Internal and Carp::CarpInternal.

Defaults to Carp::CARP_LEVEL.

=head1 BUGS

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>, L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters.
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gz/skyglobal-web-toolkit-010d7cd/app/static/lib/underscore-1.6.0.min.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-tar-
gz/skyglobal-web-toolkit-010d7cd/app/static/lib/underscore-1.6.0.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-tar-
gz/skyglobal-web-toolkit-010d7cd/_site/static/lib/underscore-1.6.0.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-tar-
gz/skyglobal-web-toolkit-010d7cd/_site/static/lib/underscore-1.6.0.min.js
No license file was found, but licenses were detected in source scan.

/*!  
 * chai
 * Copyright(c) 2011-2013 Jake Luer <jake@alogicalparadox.com>
 * MIT Licensed
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-tar-
gz/skyglobal-web-toolkit-010d7cd/test/libraries/chai.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-tar-
gz/skyglobal-web-toolkit-010d7cd/_site/test/libraries/chai.js
No license file was found, but licenses were detected in source scan.

/*! ===========================================================================
 * Bootstrap: scrollspy.js v3.0.2
 * http://getbootstrap.com/javascript/#scrollspy
 * ===========================================================================
 * Copyright 2013 Twitter, Inc.
 */

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* limitations under the License.
* =========================================================================== */
null
var m = c[j].indexOf(‘=’);
if (m == -1 || m == 0) {
    continue;
}
this.addParameter(c[j].substring(0, m), c[j].substring(m + 1, c[j].length));
}
return this;
];
mboxUrlBuilder.prototype.setServerType = function (n) {
    this.o = n;
};
mboxUrlBuilder.prototype.setBasePath = function (f) {
    this.f = f;
};
mboxUrlBuilder.prototype.setUrlProcessAction = function (p) {
    this.d = p;
};
mboxUrlBuilder.prototype.buildUrl = function () {
    var q = this.f ? this.f : '/m2' + this.b + '/mbox' + this.o;
    var r = document.location.protocol == 'file:' ? 'http:' : document.location.protocol;
    var e = r + '/' + this.a + q;
    var s = e.indexOf(‘?’) != -1 ? ’&’ : ’?’;
    for (var j = 0; j < this.c.length; j++) {
        var k = this.c[j];
        if ((k.name == 'lnk') && typeof (k.value) != 'string') {
            continue;
        }
        e += s + encodeURIComponent(k.name) + '=' + encodeURIComponent(k.value);
        s = '&';
    }
    return this.t(this.d(e));
};
mboxUrlBuilder.prototype.getParameters = function () {
    return this.c;
};
mboxUrlBuilder.prototype.setParameters = function (c) {
    this.c = c;
};
mboxUrlBuilder.prototype.clone = function () {
    var u = new mboxUrlBuilder(this.a, this.b);
    u.setServerType(this.o);
    u.setBasePath(this.f);
    u.setUrlProcessAction(this.d);
    for (var j = 0; j < this.c.length; j++) {
        u.addParameter(this.c[j].name, this.c[j].value);
    }
    return u;
};
mboxUrlBuilder.prototype.t = function (v) {
return v.replace(/\"/g, '&quot;').replace(/>/g, '&gt;');
};
mboxStandardFetcher = function () {};
mboxStandardFetcher.prototype.getType = function () {
return 'standard';
};
mboxStandardFetcher.prototype.fetch = function (w) {
w.setServerType(this.getType());
document.write('<' + 'scr' + 'ipt src="' + w.buildUrl() + '" language="JavaScript"><' + '\/scr' + 'ipt>');
};
mboxStandardFetcher.prototype.cancel = function () {};
mboxAjaxFetcher = function () {};
mboxAjaxFetcher.prototype.getType = function () {
return 'ajax';
};
mboxAjaxFetcher.prototype.fetch = function (w) {
w.setServerType(this.getType());
var e = w.buildUrl();
this.x = document.createElement('script');
this.x.src = e;
document.body.appendChild(this.x);
};
mboxAjaxFetcher.prototype.cancel = function () {};
mboxMap = function () {
this.y = new Object();
this.z = new Array();
};
mboxMap.prototype.put = function (A, h) {
if (!this.y[A]) {
this.z[this.z.length] = A;
}
this.y[A] = h;
};
mboxMap.prototype.get = function (A) {
return this.y[A];
};
mboxMap.prototype.remove = function (A) {
this.y[A] = undefined;
};
mboxMap.prototype.each = function (p) {
for (var j = 0; j < this.z.length; j++) {
var A = this.z[j];
var h = this.y[A];
if (h) {
var B = p(A, h);
if (B === false) {
break;

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mboxFactory = function (C, b, D) {
    this.E = false;
    this.C = C;
    this.D = D;
    this.F = new mboxList();
    mboxFactories.put(D, this);
    this.G = typeof document.createElement('div').replaceChild !== 'undefined' && (function () {
        return true;
    })() && typeof document.getElementById !== 'undefined' && typeof (window.attachEvent ||
    document.addEventListener || window.addEventListener) !== 'undefined' && typeof encodeURIComponent !=
    'undefined';
    this.H = this.G && mboxGetPageParameter('mboxDisable') == null;
    var I = D == 'default';
    this.J = new mboxCookieManager('mbox' + (I ? '' : ('-' + D)), (function () {
        return mboxCookiePageDomain();
    })());
    this.H = this.H && this.J.isEnabled() && (this.J.getCookie('disable') == null);
    if (this.isAdmin()) {
        this.enable();
    }
    this.K();
    this.L = mboxGenerateId();
    this.M = mboxScreenHeight();
    this.N = mboxScreenWidth();
    this.O = mboxBrowserWidth();
    this.P = mboxBrowserHeight();
    this.Q = mboxScreenColorDepth();
    this.R = mboxBrowserTimeOffset();
    this.S = new mboxSession(this.L, 'mboxSession', 'session', 31 * 60, this.J);
    this.T = new mboxPC('PC', 1209600, this.J);
    this.w = new mboxUrlBuilder(C, b);
    this.U(this.w, I);
    this.V = new Date().getTime();
    this.W = this.V;
    var X = this;
    this.addOnLoad(function () {
        X.W = new Date().getTime();
    });
    if (this.G) {
        this.addOnLoad(function () {
            X.E = true;
            X.getMboxes().each(function (Y) {
                Y.setFetcher(new mboxAjaxFetcher());
                Y.finalize();
            });
        });
    }
};
if (this.H) {
    this.limitTraffic(100, 10368000);
    this.Z();
    this._ = new mboxSignaler(function (ab, c) {
        return X.create(ab, c);
    }, this.J);
}
}

mboxFactory.prototype.isEnabled = function () {
    return this.H;
};

mboxFactory.prototype.getDisableReason = function () {
    return this.J.getCookie('disable');
};

mboxFactory.prototype.isSupported = function () {
    return this.G;
};

mboxFactory.prototype.disable = function (bb, cb) {
    if (typeof bb == 'undefined') {
        bb = 60 * 60;
    }
    if (typeof cb == 'undefined') {
        cb = 'unspecified';
    }
    if (!this.isAdmin()) {
        this.H = false;
        this.J.setCookie('disable', cb, bb);
    }
};

mboxFactory.prototype.enable = function () {
    this.H = true;
    this.J.deleteCookie('disable');
};

mboxFactory.prototype.isAdmin = function () {
    return document.location.href.indexOf('mboxEnv') != -1;
};

mboxFactory.prototype.limitTraffic = function (db, bb) {};

mboxFactory.prototype.addOnLoad = function (eb) {
    if (this.isDomLoaded()) {
        eb();
    } else {
        var fb = false;
        var gb = function () {
            if (fb) {
                return;
            }
        }
    }
};
fb = true;
eb();
this.hb.push(gb);
if (this.isDomLoaded() && !fb) {
  gb();
}
}
}
mboxFactory.prototype.getEllapsedTime = function () {
  return this.W - this.V;
};
mboxFactory.prototype.getEllapsedTimeUntil = function (ib) {
  return ib - this.V;
};
mboxFactory.prototype.getMboxes = function () {
  return this.F;
};
mboxFactory.prototype.get = function (ab, jb) {
  return this.F.get(ab).getById(jb || 0);
};
mboxFactory.prototype.update = function (ab, c) {
  if (!this.isEnabled()) {
    return;
  }
  if (!this.isDomLoaded()) {
    var X = this;
    this.addOnLoad(function () {
      X.update(ab, c);
    });
    return;
  }
  if (this.F.get(ab).length() == 0) {
    throw "Mbox " + ab + " is not defined";
  }
  this.F.get(ab).each(function (Y) {
    Y.getUrlBuilder().addParameter('mboxPage', mboxGenerateId());
    Y.load(c);
  });
  return;
};
mboxFactory.prototype.create = function (ab, c, kb) {
  if (!this.isSupported()) {
    return null;
  }
  var e = this.w.clone();
e.addParameter('mboxCount', this.F.length() + 1);
e.addParameters(c);
var jb = this.F.get(ab).length();
var lb = this.D + '-' + ab + '-' + jb;
var mb;
if (kb) {
    mb = new mboxLocatorNode(kb);
} else {
    if (this.E) {
        throw 'The page has already been loaded, can\'t write marker';
    }
    mb = new mboxLocatorDefault(lb);
}
try {
    var X = this;
    var nb = 'mboxImported-' + lb;
    var Y = new mbox(ab, jb, e, mb, nb);
    if (this.H) {
        Y.setFetcher(this.E ? new mboxAjaxFetcher() : new mboxStandardFetcher());
    }
    Y.setOnError(function (ob, n) {
        Y.setMessage(ob);
        Y.activate();
        if (!Y.isActivated()) {
            X.disable(60 * 60, ob);
            window.location.reload(false);
        }
    });
    this.F.add(Y);
} catch (pb) {
    this.disable();
    throw 'Failed creating mbox "' + ab + '", the error was: ' + pb;
}
var qb = new Date();
e.addParameter('mboxTime', qb.getTime() - (qb.getTimezoneOffset() * 60000));
return Y;
}
mboxFactory.prototype.getCookieManager = function () {
    return this.J;
};
mboxFactory.prototype.getPageId = function () {
    return this.L;
};
mboxFactory.prototype.getPCId = function () {
    return this.T;
};
mboxFactory.prototype.getSessionId = function () {
    return this.S;
};
mboxFactory.prototype.getSignaler = function () {

mboxFactory.prototype.getUrlBuilder = function () {
    return this.w;
};

mboxFactory.prototype.U = function (e, I) {
    e.addParameter('mboxHost', document.location.hostname).addParameter('mboxSession', this.S.getId());
    if (!I) {
        e.addParameter('mboxFactoryId', this.D);
    }
    if (this.T.getId() != null) {
        e.addParameter('mboxPC', this.T.getId());
    }
    e.addParameter('mboxPage', this.L);
    e.addParameter('screenHeight', this.M);
    e.addParameter('screenWidth', this.N);
    e.addParameter('browserHeight', this.P);
    e.addParameter('colorDepth', this.Q);
    e.addParameters(this.rb().split('&'));
    e.setUrlProcessAction(function (e) {
        e += '&mboxURL=' + encodeURIComponent(document.location);
        var sb = encodeURIComponent(document.referrer);
        if (e.length + sb.length < 2000) {
            e += '&mboxReferrer=' + sb;
        }
        e += '&mboxVersion=' + mboxVersion;
        return e;
    });
};

mboxFactory.prototype.rb = function () {
    function tnt_readcookie(name) {
        var nameEQ = name + '=';
        var ca = document.cookie.split(';
        for (var i = 0; i < ca.length; i++) {
            var c = ca[i];
            while (c.charAt(0) == ' ') c = c.substring(1, c.length);
            if (c.indexOf(nameEQ) == 0) return c.substring(nameEQ.length, c.length);
        }
        return "";
    }
    return tnt_readcookie("custype");
};

mboxFactory.prototype.Z = function () {
    document.write('<style>.' + 'mboxDefault' + ' { visibility:hidden; }</style>');
mboxFactory.prototype.isDomLoaded = function () {
    return this.E;
};
mboxFactory.prototype.K = function () {
    if (this.hb != null) {
        return;
    }
    this.hb = new Array();
    var X = this;
    (function () {
        var tb = document.addEventListener ? "DOMContentLoaded" : "onreadystatechange";
        var ub = false;
        var vb = function () {
            if (ub) {
                return;
            }
            ub = true;
            for (var i = 0; i < X.hb.length; ++i) {
                X.hb[i]();
            }
        };
        if (document.addEventListener) {
            document.addEventListener(tb, function () {
                document.removeEventListener(tb, arguments.callee, false);
                vb();
            }, false);
            window.addEventListener("load", function () {
                document.removeEventListener("load", arguments.callee, false);
                vb();
            }, false);
        } else if (document.attachEvent) {
            if (self !== self.top) {
                document.attachEvent(tb, function () {
                    document.readyState === 'complete' |
                    document.detachEvent(tb, arguments.callee);
                    vb();
                });
            } else {
                var wb = function () {
                    try {
                        document.documentElement.doScroll('left');
                        vb();
                    } catch (xb) {
                        setTimeout(wb, 13);
                    }
                };
                setTimeout(wb, 13);
            }
        }
    }());
};
if (document.readyState === "complete") {
    vb();
}
})();
mboxSignaler = function (yb, J) {
    this.J = J;
    var zb = J.getCookieNames('signal-');
    for (var j = 0; j < zb.length; j++) {
        var Ab = zb[j];
        var Bb = J.getCookie(Ab).split('&');
        var Y = yb(Bb[0], Bb);
        Y.load();
        J.deleteCookie(Ab);
    }
};
mboxSignaler.prototype.signal = function (Cb, ab) {
    this.J.setCookie('signal-' + Cb, mboxShiftArray(arguments).join('&'), 45 * 60);
};
mboxList = function () {
    this.F = new Array();
};
mboxList.prototype.add = function (Y) {
    if (Y != null) {
        this.F[this.F.length] = Y;
    }
};
mboxList.prototype.get = function (ab) {
    var B = new mboxList();
    for (var j = 0; j < this.F.length; j++) {
        var Y = this.F[j];
        if (Y.getName() == ab) {
            B.add(Y);
        }
    }
    return B;
};
mboxList.prototype.getById = function (Db) {
    return this.F[Db];
};
mboxList.prototype.length = function () {
    return this.F.length;
};
mboxList.prototype.each = function (p) {
    if (typeof p !== 'function') {
        throw 'Action must be a function, was: ' + typeof (p);
    }
};
}
for (var j = 0; j < this.F.length; j++) {
p(this.F[j]);
}
};
mboxLocatorDefault = function (g) {
this.g = 'mboxMarker-' + g;
document.write('<div id="' + this.g + '" style="visibility:hidden;display:none">&nbsp;</div>');
};
mboxLocatorDefault.prototype.locate = function () {
var Eb = document.getElementById(this.g);
while (Eb != null) {
if (Eb.nodeType == 1) {
if (Eb.className == 'mboxDefault') {
return Eb;
}
}
Eb = Eb.previousSibling;
}
return null;
};
mboxLocatorDefault.prototype.force = function () {
var Fb = document.createElement('div');
Fb.className = 'mboxDefault';
var Gb = document.getElementById(this.g);
Gb.parentNode.insertBefore(Fb, Gb);
return Fb;
};
mboxLocatorNode = function (Hb) {
this.Eb = Hb;
};
mboxLocatorNode.prototype.locate = function () {
return typeof this.Eb == 'string' ? document.getElementById(this.Eb) : this.Eb;
};
mboxLocatorNode.prototype.force = function () {
return null;
};
mboxCreate = function (ab) {
var Y = mboxFactoryDefault.create(ab, mboxShiftArray(arguments));
if (Y) {
Y.load();
}
return Y;
};
mboxDefine = function (kb, ab) {
var Y = mboxFactoryDefault.create(ab, mboxShiftArray(mboxShiftArray(arguments)), kb);
return Y;
};

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mboxUpdate = function (ab) {
    mboxFactoryDefault.update(ab, mboxShiftArray(arguments));
};
mbox = function (g, Ib, w, Jb, nb) {
    this.Kb = null;
    this.Lb = 0;
    this.mb = Jb;
    this.nb = nb;
    this.Mb = null;
    this.Nb = new mboxOfferContent();
    this.Fb = null;
    this.w = w;
    this.message = "";
    this.Ob = new Object();
    this.Pb = 0;
    this.Ib = Ib;
    this.g = g;
    this.Qb();
    w.addParameter('mbox', g).addParameter('mboxId', Ib);
    this.Rb = function () {};
    this.Sb = function () {};
    this.Tb = null;
};
mbox.prototype.getId = function () {
    return this.Ib;
};
mbox.prototype.Qb = function () {
    if (this.g.length > 250) {
        throw "Mbox Name " + this.g + " exceeds max length of " + 250 characters."
    } else if (this.g.match(/^[^s]+[^s]$/g)) {
        throw "Mbox Name " + this.g + " has leading/trailing whitespace(s)."
    }
};
mbox.prototype.getName = function () {
    return this.g;
};
mbox.prototype.getParameters = function () {
    var c = this.w.getParameters();
    var B = new Array();
    for (var j = 0; j < c.length; j++) {
        if (c[j].name.indexOf('mbox') != 0) {
            B[B.length] = c[j].name + '=' + c[j].value;
        }
    }
    return B;
};
mbox.prototype.setOnLoad = function (p) {
    this.Sb = p;
}
mbox.prototype.setMessage = function (ob) {
    this.message = ob;
    return this;
};
mbox.prototype.setOnError = function (Rb) {
    this.Rb = Rb;
    return this;
};
mbox.prototype.setFetcher = function (Ub) {
    if (this.Mb) {
        this.Mb.cancel();
    }
    this.Mb = Ub;
    return this;
};
mbox.prototype.getFetcher = function () {
    return this.Mb;
};
mbox.prototype.load = function (c) {
    if (this.Mb == null) {
        return this;
    }
    this.setEventTime("load.start");
    this.cancelTimeout();
    this.Lb = 0;
    var w = (c && c.length > 0) ? this.w.clone().addParameters(c) : this.w;
    this.Mb.fetch(w);
    var X = this;
    this.Vb = setTimeout(function () {
        X.Rb('browser timeout', X.Mb.getType());
    }, 15000);
    this.setEventTime("load.end");
    return this;
};
mbox.prototype.loaded = function () {
    this.cancelTimeout();
    if (!this.activate()) {
        var X = this;
        setTimeout(function () {
            X.loaded();
        }, 100);
    }
};
mbox.prototype.activate = function () {
    if (this.Lb) {
        return this.Lb;
    }
    return this;
};
```javascript
this.setEventTime('activate' + ++this.Pb + '.start');
if (this.show()) {
    this.cancelTimeout();
    this.Lb = 1;
}
this.setEventTime('activate' + this.Pb + '.end');
return this.Lb;
};
mbox.prototype.isActivated = function () {
    return this.Lb;
};
mbox.prototype.setOffer = function (Nb) {
    if (Nb && Nb.show && Nb.setOnLoad) {
        this.Nb = Nb;
    } else {
        throw 'Invalid offer';
    }
    return this;
};
mbox.prototype.getOffer = function () {
    return this.Nb;
};
mbox.prototype.show = function () {
    this.setEventTime('show.start');
    var B = this.Nb.show(this);
    this.setEventTime(B == 1 ? "show.end.ok" : "show.end");
    return B;
};
mbox.prototype.showContent = function (Wb) {
    if (Wb == null) {
        return 0;
    }
    if (this.Fb == null || !this.Fb.parentNode) {
        this.Fb = this.getDefaultDiv();
        if (this.Fb == null) {
            return 0;
        }
    }
    if (this.Fb != Wb) {
        this.Xb(this.Fb);
        this.Fb.parentNode.replaceChild(Wb, this.Fb);
    }
    this.Yb(Wb);
    this.Sb();
    return 1;
};
```
mbox.prototype.hide = function () {
    this.setEventTime('hide.start');
    var B = this.showContent(this.getDefaultDiv());
    this.setEventTime(B == 1 ? 'hide.end.ok' : 'hide.end.fail');
    return B;
};
mbox.prototype.finalize = function () {
    this.setEventTime('finalize.start');
    this.cancelTimeout();
    if (this.getDefaultDiv() == null) {
        if (this.mb.force() != null) {
            this.setMessage('No default content, an empty one has been added');
        } else {
            this.setMessage('Unable to locate mbox');
        }
    } else {
        if (!this.activate()) {
            this.hide();
            this.setEventTime('finalize.end.hide');
        }
        this.setEventTime('finalize.end.ok');
    };
}
mbox.prototype.cancelTimeout = function () {
    if (this.Vb) {
        clearTimeout(this.Vb);
    }
    if (this.Mb != null) {
        this.Mb.cancel();
    }
};
mbox.prototype.getDiv = function () {
    return this.Fb;
};
mbox.prototype.getDefaultDiv = function () {
    if (this.Tb == null) {
        this.Tb = this.mb.locate();
    }
    return this.Tb;
};
mbox.prototype.setEventTime = function (Zb) {
    this.Ob[Zb] = (new Date()).getTime();
};
mbox.prototype.getEventTimes = function () {
    return this.Ob;
};
mbox.prototype.getImportName = function () {
    return this.nb;
};
mbox.prototype.getURL = function () {
    return this.w.buildUrl();
};
mbox.prototype.getUrlBuilder = function () {
    return this.w;
};
mbox.prototype._b = function (Fb) {
    return Fb.style.display != 'none';
};
mbox.prototype.Yb = function (Fb) {
    this.ac(Fb, true);
};
mbox.prototype.Xb = function (Fb) {
    this.ac(Fb, false);
};
mbox.prototype.ac = function (Fb, bc) {
    Fb.style.visibility = bc ? "visible" : "hidden";
    Fb.style.display = bc ? "block" : "none";
};
mboxOfferContent = function () {
    this.Sb = function () {  
    }
};
mboxOfferContent.prototype.show = function (Y) {
    var B = Y.showContent(document.getElementById(Y.getImportName()));
    if (B == 1) {
        this.Sb();
    }
    return B;
};
mboxOfferContent.prototype.setOnLoad = function (Sb) {
    this.Sb = Sb;
};
mboxOfferAjax = function (Wb) {
    this.Wb = Wb;
    this.Sb = function () { };  
};
mboxOfferAjax.prototype.setOnLoad = function (Sb) {
    this.Sb = Sb;
};
mboxOfferAjax.prototype.show = function (Y) {
    var cc = document.createElement('div');
    cc.id = Y.getImportName();
    cc.innerHTML = this.Wb;
    var B = Y.showContent(cc);
    if (B == 1) {
        this.Sb();
    }
    return B;
mboxOfferDefault = function () {
    this.Sb = function () {};
};
mboxOfferDefault.prototype.setOnLoad = function (Sb) {
    this.Sb = Sb;
};
mboxOfferDefault.prototype.show = function (Y) {
    var B = Y.hide();
    if (B == 1) {
        this.Sb();
    }
    return B;
};
mboxCookieManager = function mboxCookieManager(g, dc) {
    this.g = g;
    this.dc = dc == '' || dc.indexOf('.') == -1 ? '' : '; domain=' + dc;
    this.ec = new mboxMap();
    this.loadCookies();
};
mboxCookieManager.prototype.isEnabled = function () {
    this.setCookie('check', 'true', 60);
    this.loadCookies();
    return this.getCookie('check') == 'true';
};
mboxCookieManager.prototype.setCookie = function (g, h, bb) {
    if (typeof g != 'undefined' && typeof h != 'undefined' && typeof bb != 'undefined') {
        var fc = new Object();
        fc.name = g;
        fc.value = escape(h);
        fc.expireOn = Math.ceil(bb + new Date().getTime() / 1000);
        this.ec.put(g, fc);
        this.saveCookies();
    }
};
mboxCookieManager.prototype.getCookie = function (g) {
    var fc = this.ec.get(g);
    return fc ? unescape(fc.value) : null;
};
mboxCookieManager.prototype.deleteCookie = function (g) {
    this.ec.remove(g);
    this.saveCookies();
};
mboxCookieManager.prototype.getCookieNames = function (gc) {
    var hc = new Array();
    this.ec.each(function (g, fc) {
        if (g.indexOf(gc) == 0) {
            hc[hc.length] = g;
        }
    });
mboxCookieManager.prototype.saveCookies = function () {
    var ic = false;
    var jc = 'disable';
    var kc = new Array();
    var lc = 0;
    this.ec.each(function (g, fc) {
        if (!ic || g === jc) {
            kc[kc.length] = g + '#' + fc.value + '#' + fc.expireOn;
            if (lc < fc.expireOn) {
                lc = fc.expireOn;
            }
        }
    });
    var mc = new Date(lc * 1000);
    document.cookie = this.g + '=' + kc.join('|') + '; expires=' + mc.toGMTString() + '; path=/' + this.dc;
};

mboxCookieManager.prototype.loadCookies = function () {
    this.ec = new mboxMap();
    var nc = document.cookie.indexOf(this.g + '=');
    if (nc != -1) {
        var oc = document.cookie.indexOf(';', nc);
        if (oc == -1) {
            oc = document.cookie.indexOf(',', nc);
            if (oc == -1) {
                oc = document.cookie.length;
            }
        }
        var pc = document.cookie.substring(nc + this.g.length + 1, oc).split('|');
        var qc = Math.ceil(new Date().getTime() / 1000);
        for (var j = 0; j < pc.length; j++) {
            var fc = pc[j].split('#');
            if (qc <= fc[2]) {
                var rc = new Object();
                rc.name = fc[0];
                rc.value = fc[1];
                rc.expireOn = fc[2];
                this.ec.put(rc.name, rc);
            }
        }
    }
}

mboxSession = function (sc, tc, Ab, uc, J) {
    this.tc = tc;
    this.Ab = Ab;
this.uc = uc;
this.J = J;
this.vc = false;
this.Ib = typeof mboxForceSessionId != 'undefined' ? mboxForceSessionId : mboxGetPageParameter(this.tc);
if (this.Ib == null || this.Ib.length == 0) {
    this.Ib = J.getCookie(Ab);
    if (this.Ib == null || this.Ib.length == 0) {
        this.Ib = sc;
        this.vc = true;
    }
}
J.setCookie(Ab, this.Ib, uc);
};
mboxSession.prototype.getId = function () {
    return this.Ib;
};
mboxSession.prototype.forceId = function (wc) {
    this.Ib = wc;
    this.J.setCookie(this.Ab, this.Ib, this.uc);
};
mboxPC = function (Ab, uc, J) {
    this.Ab = Ab;
    this.uc = uc;
    this.J = J;
    this.Ib = typeof mboxForcePCId != 'undefined' ? mboxForcePCId : J.getCookie(Ab);
    if (this.Ib != null) {
        J.setCookie(Ab, this.Ib, this.uc);
    }
};
mboxPC.prototype.getId = function () {
    return this.Ib;
};
mboxPC.prototype.forceId = function (wc) {
    if (this.Ib != wc) {
        this.Ib = wc;
        this.J.setCookie(this.Ab, this.Ib, this.uc);
        return true;
    }
    return false;
};
mboxGetPageParameter = function (g) {
    var B = null;
    var xc = new RegExp(g + "=(\[\^&\]*)");
    var yc = xc.exec(document.location);
    if (yc != null && yc.length >= 2) {
        B = yc[1];
    }
    return B;
mboxSetCookie = function (g, h, bb) {
    return mboxFactoryDefault.getCookieManager().setCookie(g, h, bb);
};
mboxGetCookie = function (g) {
    return mboxFactoryDefault.getCookieManager().getCookie(g);
};
mboxCookiePageDomain = function () {
    var dc = (/\([^:\]*)(:[0-9]{0,5})?/).exec(document.location.host)[1];
    var zc = /[0-9]{1,3}\.\[0-9]{1,3}\[0-9]{1,3}\[/1,3]\.\[0-9]{1,3}\[/1,3]/;
    if (!zc.exec(dc)) {
        var Ac = (/\[^\]*\./[0-9]{3,}([^\]+)?$/).exec(dc);
        if (Ac) {
            dc = Ac[0];
        }
    }
    return dc ? dc : "";
};
mboxShiftArray = function (Bc) {
    var B = new Array();
    for (var j = 1; j < Bc.length; j++) {
        B[B.length] = Bc[j];
    }
    return B;
};
mboxGenerateId = function () {
    return (new Date()).getTime() + "-" + Math.floor(Math.random() * 999999);
};
mboxScreenWidth = function () {
    return screen.width;
};
mboxScreenHeight = function () {
    return screen.height;
};
mboxBrowserWidth = function () {
};
mboxBrowserHeight = function () {
    return (window.innerHeight) ? window.innerHeight : document.documentElement.clientHeight : document.body.clientHeight;
};
mboxBrowserTimeOffset = function () {
    return -new Date().getTimezoneOffset();
};
mboxScreenWidth = function () {
    return screen.width;
};
if (typeof mboxVersion == 'undefined') {
    var mboxVersion = 41;
    var mboxFactories = new mboxMap();
    var mboxFactoryDefault = new mboxFactory('britishskybroadcasti.tt.omtrdc.net', 'britishskybroadcasti', 'default');
};
if (mboxGetPageParameter("mboxDebug") != null || mboxFactoryDefault.getCookieManager().getCookie("debug") != null) {
    setTimeout(function () {
        if (typeof mboxDebugLoaded == 'undefined') {
            alert('Could not load the remote debug. Please check your connection to Test&Target servers');
        }
    }, 60 * 60);
    document.write('<script language="Javascript1.2" src="http://admin5.testandtarget.omniture.com/admin/mbox/mbox_debug.jsp?mboxServerHost=britishskybroadcasti.tt.omtrdc.net' + '&clientCode=britishskybroadcasti">\n</script>');
};
mboxScPluginFetcher = function (b, Cc) {
    this.b = b;
    this.Cc = Cc;
};
mboxScPluginFetcher.prototype.Dc = function (w) {
    w.setBasePath('/m2/' + this.b + '/sc/standard');
    this.Ec(w);
    var e = w.buildUrl();
    e += '&scPluginVersion=1';
    return e;
};
mboxScPluginFetcher.prototype.Ec = function (w) {
    var Fc = ['dynamicVariablePrefix', 'visitorID', 'vmk', 'ppu', 'charSet', 'visitorNamespace',
        "cookieDomainPeriods", "cookieLifetime", "pageName", "currencyCode", "variableProvider", "channel", "server",
        "pageType", "transactionID", "purchaseID", "campaign", "state", "zip", "events", "products", "linkName",
        "linkType", "resolution", "colorDepth", "javascriptVersion", "javaEnabled", "cookiesEnabled", "browserWidth",
        "browserHeight", "connectionType", "homepage", "pe", "pev1", "pev2", "pev3", "visitorSampling",
        "visitorSamplingGroup", "dynamicAccountSelection", "dynamicAccountList", "dynamicAccountMatch",
        "trackDownloadLinks", "trackExternalLinks", "trackInlineStats", "linkLeaveQueryString",
        "linkDownloadFileTypes", "linkExternalFilters", "linkInternalFilters", "linkTrackVars", "linkTrackEvents",
        "linkNames", "link", "eo"];
    for (var j = 0; j < Fc.length; j++) {
        this.Gc(Fc[j], w);
    }
    for (var j = 1; j <= 75; j++) {
        this.Gc('prop' + j, w);
        this.Gc('eVar' + j, w);
        this.Gc('hier' + j, w);
    }
};
mboxScPluginFetcher.prototype.Gc = function (g, w) {
    var h = this.Cc[g];
if (typeof (h) === 'undefined' || h === null || h === '') {
  return;
}
w.addParameter(g, h);
};
mboxScPluginFetcher.prototype.cancel = function () {};
mboxScPluginFetcher.prototype.fetch = function (w) {
  w.setServerType(this.getType());
  var e = this.Dc(w);
  this.x = document.createElement('script');
  this.x.src = e;
  document.body.appendChild(this.x);
};
mboxScPluginFetcher.prototype.getType = function () {
  return 'ajax';
};

function mboxLoadSCPlugin(Cc) {
  if (!Cc) {
    return null;
  }
  Cc.m_tt = function (Cc) {
    var Hc = Cc.m_i('tt');
    Hc.H = true;
    Hc.b = 'britishskybroadcasti';
    Hc[['_t']] = function () {
      if (!this.isEnabled()) {
        return;
      }
      var Y = this.Jc();
      if (Y) {
        var Ub = new mboxScPluginFetcher(this.b, this.s);
        Y.setFetcher(Ub);
        Y.load();
      }
    };
    Hc.isEnabled = function () {
      return this.H && mboxFactoryDefault.isEnabled();
    };
    Hc.Jc = function () {
      var ab = this.Kc();
      var Fb = document.createElement('DIV');
      return mboxFactoryDefault.create(ab, new Array(), Fb);
    };
    Hc.Kc = function () {
      var Lc = this.s.events && this.s.events.indexOf('purchase') !== -1;
      return 'SiteCatalyst: ' + (Lc ? 'purchase' : 'event');
    };
  };
};
var mboxTrack = function (mbox, params) {
    var m, u, i, f = mboxFactoryDefault;
    if (f.isEnabled()) {
        if (f.getMboxes().length() > 0) {
            m = f.getMboxes().getByIndex(0);
            u = m.getURL().replace("mbox=" + escape(m.getName()), "mbox=" + mbox).replace("/undefined", "/ajax").replace("mboxPage=" + f.getPageId(), "mboxPage=" + mboxGenerateId()) + '&amp;' + params, i = new Image();
            i.style.display = 'none';
            i.src = u;
            document.body.appendChild(i)
        } else {
            mboxTrackDefer(mbox, params)
        }
    }
}, mboxTrackDefer = function (mbox, params) {
    var f = mboxFactoryDefault;
    if (f.isEnabled()) {
        mboxFactoryDefault.getSignaler().signal(mbox, mbox + '&amp;' + params)
    }
}, mboxTrackLink = function (mbox, params, url) {
    mboxTrack(mbox, params);
    setTimeout("location='" + url + "'", 500)
};

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* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-gebra0644-target-gz/skyglobal-web-toolkit-010d7cd/_site/static/lib/testandtarget.js

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/*! 
 * jQuery.tabbable 1.0 - Simple utility for selecting the next / previous ':tabbable' element.
 * https://github.com/marklagendijk/jQuery.tabbable
 * 
 * Includes ':tabbable' and ':focusable' selectors from jQuery UI Core
 * 
 * Copyright 2013, Mark Lagendijk
 * 
 * Released under the MIT license
 *
*/

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see: http://github.com/jrburke/requirejs for details
*/

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gz/skyglobal-web-toolkit-010d7cd/app/static/lib/require-2.1.9.min.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-gebra0644-targ-
gz/skyglobal-web-toolkit-010d7cd/_site/static/lib/require-2.1.9.min.js

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 * mocha
 * Copyright(c) 2011 TJ Holowaychuk <tj@vision-media.ca>
 * MIT Licensed
 */

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* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-gebra0644-targ-
gz/skyglobal-web-toolkit-010d7cd/_site/test/libraries/mocha.js

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/*! *
 * jQuery JavaScript Library v1.10.2
 * http://jquery.com/
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 *
 * Copyright 2005, 2013 jQuery Foundation, Inc. and other contributors
 * Released under the MIT license
 * http://jquery.org/license
 *
 * Date: 2013-07-03T13:48Z
 */

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gz/skyglobal-web-toolkit-010d7cd/_site/static/lib/jquery-1.10.2.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-gebra0644-targ-
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/*
 * classList.js: Cross-browser full element.classList implementation.
 * 2014-01-31
 * 
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 */

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* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-target.gz/skyglobal-web-toolkit-010d7cd/_site/demo/scripts/toolkit.js
* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-target.gz/skyglobal-web-toolkit-010d7cd/_site/src/toolkit/utils/polyfill.js

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* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-target.gz/skyglobal-web-toolkit-010d7cd/_site/test/libraries/grunt-reporter.js

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* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-geba0644-target.gz/skyglobal-web-toolkit-010d7cd/_site/test/libraries/grunt-reporter.js

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/* grunticon Stylesheet Loader | https://github.com/filamentgroup/grunticon | (c) 2012 Scott Jehl, Filament Group, Inc. | MIT license. */
window.grunticon=function(e){if(e&&3===e.length){var t=window,n=!(!t.document.createElementNS||!t.document.createElementNS("http://www.w3.org/2000/svg","svg").createSVGRect||!document.implementation.hasFeature("http://www.w3.org/TR/SVG11/feature#Image","1.1")||window.opera&&-1===navigator.userAgent.indexOf("Chrome")),o=function(o){var r=t.document.createElement("link"),a=t.document.getElementsByTagName("script")[0];r.rel="stylesheet",r.href=e[o&&n?0:o?1:2],a.parentNode.insertBefore(r,a)},r=new t.Image;r.onerror=function(){o(!1)},r.onload=function(){o(1===r.width&&1===r.height)},r.src="data:image/gif;base64,R0lGODlhAQABAIAAAAAAAP///ywAAAAAAQABAAACAUwAOw=="};

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* /opt/ws_local/PERMITS_SQL/1012682189_1598468451.15/0/skyglobal-web-toolkit-v2-3-0-0-gebra0644-tar-gz/skyglobal-web-toolkit-010d7cd/_site/test/libraries/blanket.js

1.1998 jline 2.14.5
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1.2001 swagger-annotations 1.5.3

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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/swagger-api/swagger-spec/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 "";
}

1.2002 hsqldb-jdbc 2.3.2
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1.2003 libcroco 0.6.12 4.el7
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4th January 2009

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* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/jpa/EntityManagerHolder.java
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* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate4/SessionHolder.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate3/support/ClobStringType.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate4/HibernateExceptionTranslator.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate3/HibernateObjectRetrievalFailureException.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/jpa/persistanceunit/ClassFileTransformerAdapter.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate3/LocalDataSourceConnectionProvider.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/jdo/JdoUsageException.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate3/AbstractSessionFactoryBean.java
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* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/jdo/JdoObjectRetrievalFailureException.java
* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate3/LocalTransactionManagerLookup.java

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* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2-jar/org/springframework/orm/hibernate4/HibernateOptimisticLockingFailureException.java
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* /opt/cola/permits/1152321957_1618219197.57/0/spring-orm-4-2-1-release-sources-2.jar/org/springframework/orm/jpa/support/SharedEntityManagerFactoryBean.java
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Create a transactional EntityManager proxy for the given EntityManagerFactory.

@Param emf EntityManagerFactory to obtain EntityManagers from as needed
@Param properties the properties to be passed into the
[@code createEntityManager] call (may be [@code null])
@Param entityManagerInterfaces the interfaces to be implemented by the
EntityManager. Allows the addition or specification of proprietary interfaces.
@Return a shareable transactional EntityManager proxy

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1.2015 dso-cluster-api 1.3.0

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1.1. “Contributor” means each individual or entity that creates or contributes to the creation of Modifications.

1.2. “Contributor Version” means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code” means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable” means Covered Code in any form other than Source Code.

1.6. "Initial Developer” means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work” means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License” means this document.

1.8.1. "Licensable” means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications” means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

a. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

b. Any new file that contains any part of the Original Code or previous Modifications.

c. Any new file that is contributed or otherwise made available
under the terms of this License.

1.10. "Original Code" means Source Code and Executable form of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

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1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

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3. Distribution Obligations

3.1. Application of License.

ANY COVERED CODE THAT YOU DISTRIBUTE OR OTHERWISE MAKE AVAILABLE IS GOVERNED BY THE TERMS OF THIS LICENSE, INCLUDING WITHOUT LIMITATION SECTION 2.2. THE SOURCE CODE VERSION OF COVERED CODE MAY BE DISTRIBUTED ONLY UNDER THE TERMS OF THIS LICENSE OR A FUTURE VERSION OF THIS LICENSE RELEASED UNDER SECTION 6.1, AND YOU MUST INCLUDE A COPY OF THIS LICENSE WITH EVERY COPY OF THE SOURCE CODE YOU DISTRIBUTE OR OTHERWISE MAKE AVAILABLE. YOU MAY NOT OFFER OR IMPOSE ANY TERMS ON ANY SOURCE CODE VERSION THAT ALTERS OR RESTRICTS THE APPLICABLE VERSION OF THIS LICENSE OR THE RECIPIENTS' RIGHTS HEREUNDER. HOWEVER, YOU MAY INCLUDE AN ADDITIONAL DOCUMENT OFFERING THE ADDITIONAL RIGHTS DESCRIBED IN SECTION 3.5.

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3.3. Description of Modifications.

YOU MUST CAUSE ALL COVERED CODE TO WHICH YOU CONTRIBUTE TO CONTAIN A FILE DOCUMENTING THE CHANGES YOU MADE TO CREATE THAT COVERED CODE AND THE DATE OF ANY CHANGE. YOU MUST INCLUDE A PROMINENT STATEMENT THAT THE MODIFICATION IS DERIVED, DIRECTLY OR INDIRECTLY, FROM ORIGINAL CODE PROVIDED BY THE INITIAL DEVELOPER AND INCLUDING THE NAME OF THE INITIAL DEVELOPER IN (A) THE SOURCE CODE, AND (B) IN ANY NOTICE IN AN EXECUTABLE VERSION OR RELATED DOCUMENTATION IN WHICH YOU DESCRIBE THE ORIGIN OR OWNERSHIP OF THE COVERED CODE.

3.4. Intellectual Property Matters

(a) Third Party Claims
IF CONTRIBUTOR HAS KNOWLEDGE THAT A LICENSE UNDER A THIRD PARTY’S INTELLECTUAL PROPERTY RIGHTS IS REQUIRED TO EXERCISE THE RIGHTS GRANTED BY SUCH CONTRIBUTOR UNDER SECTIONS 2.1 OR 2.2, CONTRIBUTOR MUST INCLUDE A TEXT FILE WITH THE SOURCE CODE DISTRIBUTION TITLED “LEGAL” WHICH DESCRIBES THE CLAIM AND THE PARTY MAKING THE CLAIM IN SUFFICIENT DETAIL THAT A RECIPIENT WILL KNOW WHOM TO CONTACT. IF CONTRIBUTOR OBTAINS SUCH KNOWLEDGE AFTER THE MODIFICATION IS MADE AVAILABLE AS DESCRIBED IN SECTION 3.2, CONTRIBUTOR SHALL PROMPTLY MODIFY THE LEGAL FILE IN ALL COPIES CONTRIBUTOR MAKES AVAILABLE THEREAFTER AND SHALL TAKE OTHER STEPS (SUCH AS NOTIFYING APPROPRIATE MAILING LISTS OR NEWSGROUPS) REASONABLY CALCULATED TO INFORM THOSE WHO RECEIVED THE COVERED CODE THAT NEW KNOWLEDGE HAS BEEN OBTAINED.

(b) Contributor APIs

IF CONTRIBUTOR’S MODIFICATIONS INCLUDE AN APPLICATION PROGRAMMING INTERFACE AND CONTRIBUTOR HAS KNOWLEDGE OF PATENT LICENSES WHICH ARE REASONABLY NECESSARY TO IMPLEMENT THAT API, CONTRIBUTOR MUST ALSO INCLUDE THIS INFORMATION IN THE LEGAL FILE.

(c) Representations.

CONTRIBUTOR REPRESENTS THAT, EXCEPT AS DISCLOSED PURSUANT TO SECTION 3.4 (A) ABOVE, CONTRIBUTOR BELIEVES THAT CONTRIBUTOR’S MODIFICATIONS ARE CONTRIBUTOR’S ORIGINAL CREATION(S) AND/OR CONTRIBUTOR HAS SUFFICIENT RIGHTS TO GRANT THE RIGHTS CONVEYED BY THIS LICENSE.

3.5. Required Notices.

YOU MUST DUPLICATE THE NOTICE IN EXHIBIT A IN EACH FILE OF THE SOURCE CODE. IF IT IS NOT POSSIBLE TO PUT SUCH NOTICE IN A PARTICULAR SOURCE CODE FILE DUE TO ITS STRUCTURE, THEN YOU MUST INCLUDE SUCH NOTICE IN A LOCATION (SUCH AS A RELEVANT DIRECTORY) WHERE A USER WOULD BE LIKELY TO LOOK FOR SUCH A NOTICE. IF YOU CREATED ONE OR MORE MODIFICATION(S) YOU MAY ADD YOUR NAME AS A CONTRIBUTOR TO THE NOTICE DESCRIBED IN EXHIBIT A. YOU MUST ALSO DUPLICATE THIS LICENSE IN ANY DOCUMENTATION FOR THE SOURCE CODE WHERE YOU DESCRIBE RECIPIENTS’ RIGHTS OR OWNERSHIP RIGHTS RELATING TO COVERED CODE. YOU MAY CHOOSE TO OFFER, AND TO CHARGE A FEE FOR, WARRANTY, SUPPORT, INDEMNITY OR LIABILITY OBLIGATIONS TO ONE OR MORE RECIPIENTS OF COVERED CODE. HOWEVER, YOU MAY DO SO ONLY ON YOUR OWN BEHALF, AND NOT ON BEHALF OF THE INITIAL DEVELOPER OR ANY CONTRIBUTOR. YOU MUST MAKE IT ABSOLUTELY CLEAR THAN ANY SUCH WARRANTY, SUPPORT, INDEMNITY OR LIABILITY OBLIGATION IS OFFERED BY YOU ALONE, AND YOU HEREBY AGREE TO INDEMNIFY THE INITIAL DEVELOPER AND EVERY CONTRIBUTOR FOR ANY LIABILITY INCURRED BY THE INITIAL DEVELOPER OR SUCH CONTRIBUTOR AS A RESULT OF WARRANTY, SUPPORT, INDEMNITY OR LIABILITY TERMS YOU OFFER.
3.6. Distribution of Executable Versions.

YOU MAY DISTRIBUTE OR OTHERWISE MAKE AVAILABLE COVERED CODE IN EXECUTABLE FORM ONLY IF THE REQUIREMENTS OF SECTIONS 3.1, 3.2, 3.3, 3.4 AND 3.5 HAVE BEEN MET FOR THAT COVERED CODE, AND IF YOU INCLUDE A NOTICE STATING THAT THE SOURCE CODE VERSION OF THE COVERED CODE IS AVAILABLE UNDER THE TERMS OF THIS LICENSE, INCLUDING A DESCRIPTION OF HOW AND WHERE YOU HAVE FULFILLED THE OBLIGATIONS OF SECTION 3.2. THE NOTICE MUST BE CONSPICUOUSLY INCLUDED IN ANY NOTICE IN AN EXECUTABLE VERSION, RELATED DOCUMENTATION OR COLLATERAL IN WHICH YOU DESCRIBE RECIPIENTS' RIGHTS RELATING TO THE COVERED CODE. YOU MAY DISTRIBUTE OR OTHERWISE MAKE AVAILABLE THE EXECUTABLE VERSION OF COVERED CODE OR OWNERSHIP RIGHTS UNDER A LICENSE OF YOUR CHOICE, WHICH MAY CONTAIN TERMS DIFFERENT FROM THIS LICENSE, PROVIDED THAT YOU ARE IN COMPLIANCE WITH THE TERMS OF THIS LICENSE AND THAT THE LICENSE FOR THE EXECUTABLE VERSION DOES NOT ATTEMPT TO LIMIT OR ALTER THE RECIPIENT'S RIGHTS IN THE SOURCE CODE VERSION FROM THE RIGHTS SET FORTH IN THIS LICENSE. IF YOU DISTRIBUTE OR OTHERWISE MAKE AVAILABLE THE EXECUTABLE VERSION UNDER A DIFFERENT LICENSE YOU MUST MAKE IT ABSOLUTELY CLEAR THAT ANY TERMS WHICH DIFFER FROM THIS LICENSE ARE OFFERED BY YOU ALONE, NOT BY THE INITIAL DEVELOPER OR ANY CONTRIBUTOR. YOU HEREBY AGREE TO INDEMNIFY THE INITIAL DEVELOPER AND EVERY CONTRIBUTOR FOR ANY LIABILITY INCURRED BY THE INITIAL DEVELOPER OR SUCH CONTRIBUTOR AS A RESULT OF ANY SUCH TERMS YOU OFFER.

3.7. Larger Works.

YOU MAY CREATE A LARGER WORK BY COMBINING COVERED CODE WITH OTHER CODE NOT GOVERNED BY THE TERMS OF THIS LICENSE AND DISTRIBUTE OR OTHERWISE MAKE AVAILABLE THE LARGER WORK AS A SINGLE PRODUCT. IN SUCH A CASE, YOU MUST MAKE SURE THE REQUIREMENTS OF THIS LICENSE ARE FULFILLED FOR THE COVERED CODE.

4. Inability to Comply Due to Statute or Regulation

IF IT IS IMPOSSIBLE FOR YOU TO COMPLY WITH ANY OF THE TERMS OF THIS LICENSE WITH RESPECT TO SOME OR ALL OF THE COVERED CODE DUE TO STATUTE, JUDICIAL ORDER, OR REGULATION THEN YOU MUST: (A) COMPLY WITH THE TERMS OF THIS LICENSE TO THE MAXIMUM EXTENT POSSIBLE; AND (B) DESCRIBE THE LIMITATIONS AND THE CODE THEY AFFECT. SUCH DESCRIPTION MUST BE INCLUDED IN THE LEGAL FILE DESCRIBED IN SECTION 3.4 AND MUST BE INCLUDED WITH ALL DISTRIBUTIONS OF THE SOURCE CODE. EXCEPT TO THE EXTENT PROHIBITED BY STATUTE OR REGULATION, SUCH DESCRIPTION MUST BE SUFFICIENTLY DETAILED FOR A RECIPIENT OF ORDINARY SKILL TO BE ABLE TO UNDERSTAND IT.
5. Application of this License

THIS LICENSE APPLIES TO CODE TO WHICH THE INITIAL DEVELOPER HAS ATTACHED THE NOTICE IN EXHIBIT A AND TO RELATED COVERED CODE.

6. Versions of the License

6.1. New Versions

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6.2. Effect of New Versions

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IF YOU CREATE OR USE A MODIFIED VERSION OF THIS LICENSE (WHICH YOU MAY ONLY DO IN ORDER TO APPLY IT TO CODE WHICH IS NOT ALREADY COVERED CODE GOVERNED BY THIS LICENSE), YOU MUST (A) RENAME YOUR LICENSE SO THAT THE PHRASES "TERRACOTTA", "TPL", OR ANY CONFUSINGLY SIMILAR PHRASE DO NOT APPEAR IN YOUR LICENSE (EXCEPT TO NOTE THAT YOUR LICENSE DIFFERS FROM THIS LICENSE) AND (B) OTHERWISE MAKE IT CLEAR THAT YOUR VERSION OF THE LICENSE CONTAINS TERMS WHICH DIFFER FROM THE TERRACOTTA PUBLIC LICENSE. (FILLING IN THE NAME OF THE INITIAL DEVELOPER, ORIGINAL CODE OR CONTRIBUTOR IN THE NOTICE DESCRIBED IN EXHIBIT A SHALL NOT OF THEMSELVES BE DEEMED TO BE MODIFICATIONS OF THIS LICENSE.)

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8.3. IF YOU ASSERT A PATENT INFRINGEMENT CLAIM AGAINST PARTICIPANT ALLEGING THAT SUCH PARTICIPANT'S CONTRIBUTOR VERSION DIRECTLY OR INDIRECTLY INFRINGES ANY PATENT WHERE SUCH CLAIM IS RESOLVED (SUCH AS BY LICENSE OR SETTLEMENT) PRIOR TO THE INITIATION OF PATENT INFRINGEMENT LITIGATION, THEN THE REASONABLE VALUE OF THE LICENSES GRANTED BY SUCH PARTICIPANT UNDER SECTIONS 2.1 OR 2.2 SHALL BE TAKEN INTO ACCOUNT IN DETERMINING THE AMOUNT OR VALUE OF ANY PAYMENT OR LICENSE.

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10. U.S. government end users


11. Miscellaneous

THIS LICENSE REPRESENTS THE COMPLETE AGREEMENT CONCERNING SUBJECT
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otherwise, or (ii) ownership of fifty percent (50%) or more of the
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1.2028 libxkbcommon 0.7.1 3.el7

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1.2031 at-spi2-core 2.28.0-1.el7

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* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
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* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
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* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java

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jar/org/springframework/transaction/UnexpectedRollbackException.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-
jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
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jar/org/springframework/transaction/TransactionUsageException.java
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jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
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jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-
jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
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jar/org/springframework/transaction/support/SavepointManager.java
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  jar/org/springframework/transaction/interceptor/TransactionSynchronizationManager.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-
  jar/org/springframework/transaction/support/TransactionSynchronization.java
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  jar/org/springframework/transaction/support/ResourceHolderSupport.java
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  jar/org/springframework/transaction/support/TransactionSynchronization.java
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  jar/org/springframework/jca/cci/core/CciOperations.java
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  jar/org/springframework/jca/work/DelegatingWork.java
* /opt/cola/permits/1143552013_1615694704.29/0/spring-tx-3-2-8-release-sources-2-
  jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java

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1.2039 esapi 2.0_rc9
1.2039.1 Available under license:

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/**
 * This methods adds a provider to the {@code SecurityManager}
 * either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
 * </ul>
 * </li>SunJCE</li>
 * </li>IBMJCE [for WebSphere]</li>
 * </li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * </li>BC [i.e., Bouncy Castle]</li>
 * </li>IAIK</li>
 * </li>CryptixCrypto (or Cryptix)
* ABA

Note that neither Cryptix or ABA are actively maintained so
* it is recommended that you do not start using them for ESAPI
* unless your application already has a dependency on them. Furthermore,
* the Cryptix JCE jars likely will not work as the Cryptix code signing
* certificate has expired as of August 28, 2009. (This likely is true
* for ABA, but I can't even find a copy to download!). Lastly, the IAIK
* provider is no longer offered as free, open source. It is not a
* commercial product. See [@link http://jce.iaik.tugraz.at/] for
* details. While some older versions were offered free, it is not clear
* whether the accompanying license still allows you to use it, and if
* it does, whether or not the code signing certificate used to sign
* their JCE jar(s) has expired are not. Therefore, if you are looking
* for a FOSS alternative to SunJCE, Bouncy Castle
* ([@link http://www.bouncycastle.org/] is probably your best bet. The
* BC provider does support many of the "combined cipher modes" that provide
* both confidentiality and authenticity. (See the [@code ESAPI.properties]
* property [@code Encryptor.cipher_modes.combined_modes] for details.)
* 
* For those working in the U.S. federal government, it should be noted
* that `<i>`none</i>` of the providers listed here are considered validated
* by NIST's Cryptographic Module Validation Program and are therefore
* `<b>`not</b>` considered FIPS 140-2 compliant. There are a few approved
* JCE compatible Java libraries that are on NIST's CMVP list, but this
* list changes constantly so they are not listed here. For further details
* on NIST's CMVP, see
* [@link http://csrc.nist.gov/groups/STM/cmvp/index.html].
* 
* Finally, if you wish to use some other JCE provider not recognized above,
* you must specify the provider's fully-qualified class name (which in
* turn must have a public, no argument constructor).
* 
* The application must be given the [@code SecurityPermission] with a
* value of [@code insertProvider.&lt;provider_name&gt;] (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* 
* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a [@code java.security.Provider] class name.
* @param pos The preference position (starting at 1) that the
* caller would like for this provider. If you wish
* for it to be installed as the `<i>last</i>` provider
* (as of the time of this call), set [@code pos] to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* @exception NoSuchProviderException - thrown if the provider class
*        could not be loaded or added to the SecurityManager or
*        any other reason for failure.
*/

Found in path(s):
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-
  jar/org/owasp/esapi/crypto/SecurityProviderLoader.java

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 * @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
 * @created 2009
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  jar/org/owasp/esapi/util/DefaultMessageUtil.java

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  jar/org/owasp/esapi/tags/EncodeForHTMLAttributeTag.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2.0-rc9-sources-1-
  jar/org/owasp/esapi/tags/BaseEncodeTag.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2.0-rc9-sources-1-
  jar/org/owasp/esapi/tags/EncodeForHTMLTag.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2.0-rc9-sources-1-
  jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java
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* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/reference/validation/BaseValidationRule.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/reference/validation/ValidationException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/AvailabilityException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/AuthenticationAccountsException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/AttackTrafficException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/EncapsulationException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/ExternalIdentityException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/errors/IllegalStateException.java

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* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1.jar/org/owasp/esapi/reference/FileBasedAuthenticator.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1.jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1.jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java

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 * @author Mike Fauzy
 */
Return a { @code List } of strings of combined cipher modes that support
* both confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit separate MAC is calculated as part of
* the { @code CipherText } object upon encryption nor is any attempt made
* to verify the same on decryption.
* </p><p>
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* { @code Encryptor.cipher_modes.combined_modes }.  
* @return The parsed list of comma-separated cipher modes if the property
* was specified in { @code ESAPI.properties }; otherwise the empty list is
* returned.
* */

Found in path(s):
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-
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* 
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/

// Using cipher mode that supports both confidentiality and authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports both confidentiality and

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 * @author Rogan Dawes &lt;a href="http://www.aspectsecurity.com"&gt;Aspect Security&lt;/a&gt;
 * @created 2008
 */

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 * @author Jeff Williams &lt;a href="http://www.aspectsecurity.com"&gt;Aspect Security&lt;/a&gt;
 * @created 2007
 */
/**
 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
* in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
* either specially logging the event, logging out the current user, or invalidating the current user's account.
* <p>
* Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
* anywhere and will not require a lot of special exception handling.
* *
* @author Jeff Williams (jeff.williams@aspectsecurity.com)
* */

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/**
 * Return true if specified cipher mode is one of those specified in the
 * [@code ESAPI.properties] file that supports both confidentiality
 * <b>&amp;</b> authenticity (i.e., a "combined cipher mode" as NIST refers
 * to it).
 * @param cipherMode The specified cipher mode to be used for the encryption
 * or decryption operation.
 * @return true if the specified cipher mode is in the comma-separated list
 * of cipher modes supporting both confidentiality and authenticity;
 * otherwise false.
 * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
 */

Found in path(s):
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
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Found in path(s):
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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 */
/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 *            the command to execute
 * @param params
 *            the parameters of the command being executed
 * @param workdir
 *            the working directory
 * @param codec
 *            the codec to use to encode for the particular OS in use
 * @param logParams
 *            use false if any parameters contains sensitive or confidential information
 *
 * @return the output of the command being run
 *
 * @throws ExecutorException
 *            the service exception
 */

Found in path(s):
* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/Executor.java

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/**
 * Encodes and decodes to and from Base64 notation.
 *
 */
The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as <tt>encodeBytes( bytes, options )</tt> the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds (though that breaks strict Base64 compatibility), and encoding using the URL-safe and Ordered dialects.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );
```

to compress the data before encoding it and then making the output have no newline characters.

**Change Log:**

- **v2.2.2 -** Fixed encodeFileToFile and decodeFileToFile to use the Base64.InputStream class to encode and decode on the fly which uses less memory than encoding/decoding an entire file into memory before writing.
- **v2.2.1 -** Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~< 40 bytes).
- **v2.2 -** Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
  - The default is RFC3548 format.
  - Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfcs/rfc3548.html
  - Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfc2-1940.html
- Special thanks to Jim Kellerman at https://www.powerset.com for contributing the new Base64 dialects.
- **v2.1 -** Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
- **v2.0.2 -** Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
- **v2.0.1 -** Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
- **v2.0 -** I got rid of methods that used booleans to set options.
Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (<tt>int</tt>s that you "OR" together).

- v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
- v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.
- v1.4 - Added helper methods to read/write files.
- v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
- v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
- v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
- v1.3.3 - Fixed I/O streams which were totally messed up.

**</ul>**

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Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.

@author Robert Harder
@version 2.2.2
*/

Found in path(s):
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* @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
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* /opt/cola/permits/1140604415_1614857479.72/0/esapi-2-0-rc9-sources-1-jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java

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 * @created 2007
 */

/**
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each
 * executable must be listed as an approved executable in the ESAPI properties. The executable must also
 * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
 * you are going to invoke this interface with confidential information.
 */

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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/
/**
* Encrypts the provided plaintext and returns a ciphertext string using the
* master secret key and default cipher transformation.
* </p><p>
* <b>Compatibility with earlier ESAPI versions:</b> Unlike ESAPI 1.4 version
* of this method which used the Electronic Code Book (ECB)
* cipher mode to encrypt, this method uses the default cipher transformation
* and IV type (which by default is AES/CBC/PKCS5Padding and a random IV). ECB mode
* is not secure for general use and usually should be avoided. If you <b>must</b>
* use ECB mode for backward compatibility, you should do so by specifying
* <pre>
* 		ESAPI.Encryptor=org.owasp.esapi.reference.LegacyJavaEncryptor
* </pre>
* ESAPI.Encryptor=org.owasp.esapi.reference.LegacyJavaEncryptor
* </p>
* in your <b>ESAPI.properties</b> file rather than changing the default
* cipher transformation. That will make this method and the
* { @link #decrypt(String) } method use ECB mode in a manner that is compatible
* with ESAPI 1.4 and earlier but not affect the newer encryption / decryption
* methods. However, this should only be used for backward compatibility. You
* should use it to decrypt data that was previous encrypted using ESAPI 1.4 or
* earlier use a newer method that uses the stronger CBC cipher mode
* to re-encrypt it. Once all the previously encrypted data has been re-encrypted
* using this legacy class, you should stop using this legacy class and start
* using the default reference class, as per:
* </p><pre>
* ESAPI.Encryptor=org.owasp.esapi.reference.LegacyJavaEncryptor
* </pre>
* in your <b>ESAPI.properties</b> file.
* </p><p>
* <b>Why this method is deprecated:</b> Most cryptographers strongly suggest
* that if you are creating crypto functionality for general-purpose use,
* at a minimum you should ensure that it provides authenticity, integrity,
* and confidentiality. This method only provides confidentiality, but not
* authenticity or integrity. Therefore, you are encouraged to use
* one of the other encryption methods referenced below. Because this
* method provides neither authenticity nor integrity, it may be
* removed in some future ESAPI Java release. Note: there are some cases
* where authenticity / integrity are not that important. For instance, consider
* a case where the encrypted data is never out of your application's control. For
* example, if you receive data that your application is encrypting itself and then
storing the encrypted data in its own database for later use (and no other
applications can query or update that column of the database), providing
confidentiality alone might be sufficient. However, if there are cases
where your application will be sending or receiving already encrypted data
over an insecure, unauthenticated channel, in such cases authenticity and
integrity of the encrypted data likely is important and this method should
be avoided in favor of one of the other two.

@param plaintext
   the plaintext [@code String] to encrypt. Note that if you are encrypting
genral bytes, you should encrypt that byte array to a String using
"UTF-8" encoding.

@return
   the encrypted, base64-encoded String representation of 'plaintext' plus
   the random IV used.

@throws EncryptionException
   if the specified encryption algorithm could not be found or another problem exists with
   the encryption of 'plaintext'

@see #encrypt(PlainText)
@see #encrypt(SecretKey, PlainText)

@deprecated As of 1.4.2; use [@link #encrypt(PlainText)] instead, which
also ensures message authenticity. This method will be
completely removed as of the next major release or point
release (3.0 or 2.1, whichever comes first) as per OWASP
deprecation policy.

*/

Found in path(s):
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* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java

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  jar/io/netty/buffer/UnpooledDirectByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/Unpooled.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PooledByteBufAllocator.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/package-info.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ByteBufOutputStream.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/UnpooledHeapByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ByteBufInputStream.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PooledByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PoolChunk.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/UnpooledHeapByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PooledDirectByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/CompositeByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/DuplicatedByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ByteBufInputStream.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PooledByteBuf.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/PoolSubpage.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/ByteBufUtil.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/UnpooledByteBufAllocator.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
  jar/io/netty/buffer/AbstractByteBufAllocator.java
  */opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
jar/io/netty/buffer/PoolThreadCache.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
jar/io/netty/buffer/PoolArena.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
jar/io/netty/buffer/ByteBufAllocator.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
jar/io/netty/buffer/SlicedByteBuf.java
* /opt/cola/permits/1111265471_1606893008.21/0/netty-buffer-4-0-33-final-sources-1-
jar/io/netty/buffer/PoolChunkList.java
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1.2046 commons-validator 1.2.0

1.2046.1 Available under license :

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 * $Id: FormSet.java 293498 2005-10-04 02:59:43Z niallp $
 * $Rev: 293498 $
 * $Date: 2005-10-04 03:59:43 +0100 (Tue, 04 Oct 2005) $
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* $Id: ISBNValidator.java 280974 2005-09-15 00:06:59Z niallp $
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/*
* $Id: Var.java 289160 2005-09-15 05:48:33Z niallp $
* $Rev: 289160 $
* $Date: 2005-09-15 06:48:33 +0100 (Thu, 15 Sep 2005) $
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  jar/org/apache/commons/validator/Var.java
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/*
 * $Id: EmailValidator.java 280974 2005-09-15 00:06:59Z niallp $
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 * $Id: Validator.java 280974 2005-09-15 00:06:59Z niallp $
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/*
 * $Id: ValidatorResult.java 289168 2005-09-15 06:40:47Z niallp $
 * $Rev: 289168 $
 * $Date: 2005-09-15 07:40:47 +0100 (Thu, 15 Sep 2005) $
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 * $Id: ValidatorAction.java 280974 2005-09-15 00:06:59Z niallp $
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* $Id: Arg.java 280974 2005-09-15 00:06:59Z niallp $ 
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/ *
* $Id: GenericTypeValidator.java 293556 2005-10-04 07:07:32Z niallp $
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* /opt/cola/permits/1138553888_1614290842.05/0/commons-validator-1-2-0-sources-1-
jar/org/apache/commons/validator/GenericTypeValidator.java

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 * $Id: ValidatorUtils.java 280974 2005-09-15 00:06:59Z niallp $
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 * $Id: ValidatorException.java 155434 2005-02-26 13:16:41Z dirkv $
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 * $Id: ValidatorResources.java 329836 2005-10-31 15:12:50Z niallp $
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Found in path(s):
* /opt/cola/permits/1138553888_1614290842.05/0/commons-validator-1-2-0-sources-1-
  jar/org/apache/commons/validator/DateValidator.java
No license file was found, but licenses were detected in source scan.

/*
 * $Id: FormSetFactory.java 293498 2005-10-04 02:59:43Z niallp $
 * $Rev: 293498 $
 * $Date: 2005-10-04 03:59:43 +0100 (Tue, 04 Oct 2005) $
 *
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Found in path(s):
* /opt/cola/permits/1138553888_1614290842.05/0/commons-validator-1-2-0-sources-1-
  jar/org/apache/commons/validator/FormSetFactory.java
No license file was found, but licenses were detected in source scan.

/*
 * $Id: UrlValidator.java 327148 2005-10-21 10:50:20Z niallp $
 * $Rev: 327148 $
 * $Date: 2005-10-21 11:50:20 +0100 (Fri, 21 Oct 2005) $
 */
1.2047 llvm 7.0.1-1.el7

1.2047.1 Available under license:

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
    ; CHECK-LABEL: PR41535:
    ; CHECK:       // %bb.0:
    ; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
    ; CHECK-NEXT:    mov v0.d[1], v0.d[0]
    ; CHECK-NEXT:    ret
    %cat1 = shufflevector <2 x i32> %p1, undef, <2 x i32> undef, i32 undef, i32 undef, i32 undef
    %cat2 = shufflevector <2 x i32> %p2, undef, <2 x i32> undef, i32 undef, i32 undef
    %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2
    ret <4 x i32> %r
}

; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" { 
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i64>

define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; SKX256-LABEL: 'zext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i64>
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
    
    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
    
    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
}
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type [ i8*, i8, %union.anon.0 ]
%union.anon.0 = type [ i8* ]

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

sw.bb.i17: ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable
sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cegp22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
 ; CHECK-LABEL: test_sitofp_fixed:
 ; First, extend each i32 to i64
 ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
 ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
 ; Next, convert each to double.
 ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
 ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
 ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
 ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
 ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
 ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
 ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
 ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
 ; CHECK: ret
 %flt = sitofp <16 x i32> %in to <16 x double>
 %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

Open Source Used In OnPrem2.1 2.2 18884
; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

define internal void @innerNoAttribute() {
ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute()
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute()
; CHECK: attributes #0 = [ "min-legal-vector-width"="512" ]

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "i686-unknown-linux-gnu"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT:  %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT:  %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT:  %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %4 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT:  %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT:  %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %6 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT:  %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT:  %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT:  %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT:  %[[M4:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT:  %11 = load volatile i32, i32* %10, align 4
define void @foo_i32() {
entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:   vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, <64 x i32> %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, <64 x i32> %5
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %2
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %5
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa32(%rdi), %ymm1
    ; CHECK-NEXT: vpmaddwd32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: psubus_64i8_max_256:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
  %res = sub <64 x i8> %max, %y
  store <64 x i8> %res, <64 x i8>* %zptr
  ret void
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:      # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
    ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB8_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 %s1, %ymm0, %ymm1
}

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; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd (\[.*\]) \[\*\(\+\)] %xmm1 = %xmm0\[1,2,3\]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ %0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:    movl %edx, %eax
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    xorl %ecx, %ecx
  ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
  ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
  ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
  ; CHECK-NEXT:    addq $32, %rcx
  ; CHECK-NEXT:    cmpq %rcx, %rax
  ; CHECK-NEXT:    jne .LBB9_1
  ; CHECK-NEXT:  # %bb.2: # %middle.block
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti128 $0, %ymm1, %xmm1
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
  ; CHECK-NEXT:    addq $32, %rcx
  ; CHECK-NEXT:    cmpq %rcx, %rax
  ; CHECK-NEXT:    jne .LBB9_1
  ; CHECK-NEXT:    # %bb.3: # %exit.block
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  entry:
  %3 = zext i32 %2 to i64
  br label %vector.body
}

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %13 = extractelement <32 x i32> %12, i32 0
ret i32 %13
}
middle.block:

% lcssa = phi <16 x i32> [ %10, %vector.body ]
% rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, undef, undef, undef, undef, undef, undef, undef>
% bin.rdx = add <16 x i32> %.lcssa, % rdx.shuf
% rdx.shuf2 = shufflevector <16 x i32> % bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
% bin.rdx2 = add <16 x i32> % bin.rdx, % rdx.shuf2
% rdx.shuf3 = shufflevector <16 x i32> % bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
% bin.rdx3 = add <16 x i32> % bin.rdx2, % rdx.shuf3
% rdx.shuf4 = shufflevector <16 x i32> % bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
% bin.rdx4 = add <16 x i32> % bin.rdx3, % rdx.shuf4
% 12 = extractelement <16 x i32> % bin.rdx4, i32 0
ret i32 % 12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" { ; CHECK-LABEL: sad_16i8_512:
; CHECK: # % bb.0: # % entry
; CHECK-NEXT: vpxor % xmm0, % xmm0, % xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # % vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), % zmm1
; CHECK-NEXT: vpsadbwb+1024(%rax), % zmm1, % zmm1
; CHECK-NEXT: vpaddd % zmm0, % zmm1, % zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # % bb.2: # % middle.block
; CHECK-NEXT: vextracti64x4 S1, % zmm0, % ymm1
; CHECK-NEXT: vpaddd % zmm1, % zmm0, % zmm0
; CHECK-NEXT: vextracti128 S1, % ymm0, % xmm1
; CHECK-NEXT: vpaddd % xmm1, % xmm0, % xmm0
; CHECK-NEXT: vpsadd b{[.*#+]} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd % xmm1, % xmm0, % xmm0
; CHECK-NEXT: vpsadd b{[.*#+]} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd % xmm1, % xmm0, % xmm0
; CHECK-NEXT: vmovd % xmm0, % eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi i16 [ 0 < 16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT: vmovaps %ymm0, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT: vmovaps %ymm0, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sbto16f64_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymmm0
  ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
  ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
  ; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
  ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymmm0
  ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
  ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
  ; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
  ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:   # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: cvtq2pd %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:   # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %k1
; CHECK-NEXT: vpsrlq $31, %ymmm0, %ymmm0
; CHECK-NEXT: cvtq2pd %ymmm0, %ymmm1
; CHECK-NEXT: vextracti128 $1, %ymmm0, %xmm0
; CHECK-NEXT: cvtq2pd %xmm0, %ymmm0
; CHECK-NEXT: vpmovm2d %k0, %ymmm2
; CHECK-NEXT: vpsrlq $31, %ymmm2, %ymmm2
; CHECK-NEXT: cvtq2pd %ymmm2, %ymmm3
; CHECK-NEXT: vextracti128 $1, %ymmm2, %xmm2
; CHECK-NEXT: cvtq2pd %xmm2, %ymmm2
; CHECK-NEXT: vmovaps %ymmm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymmm3, (%rdi)
; CHECK-NEXT: vmovaps %ymmm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymmm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32toub_256:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vcvtpsz2dq (%rdi), %ymm1  
; CHECK-NEXT: vpslld S31, %ymm1, %ymm1  
; CHECK-NEXT: vpmovd2m %ymm1, %k0  
; CHECK-NEXT: vtmovqu16 %ymm0, %ymm0 {%k1} {z}  
; CHECK-NEXT: retq  
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptoui <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinit  
ret <16 x i16> %select  
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32toub_512:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vcvtpsz2dq (%rdi), %zmm1  
; CHECK-NEXT: vpslld S31, %zmm1, %zmm1  
; CHECK-NEXT: vpmovd2m %zmm1, %k1  
; CHECK-NEXT: vtmovqu16 %ymm0, %ymm0 {%k1} {z}  
; CHECK-NEXT: retq  
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptoui <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinit  
ret <16 x i16> %select  
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-NEXT: vextracti64x4 S1, %zmm0, %ymm0  
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0  
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)  
; CHECK-NEXT: vmovaps %zmm1, (%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%mask = icmp slt <16 x i16> %a, zeroinit  
%1 = uitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <16 x double>* %res  
ret void  
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32tosb_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
  ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %zmm1
  ; CHECK-NEXT:    vpmovd2m %zmm0, %k1
  ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT:    retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: mul256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
  ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
  ; CHECK-NEXT:    vpunpckhbw [.*+] {ymm4 =
   ymm3[8], ymm0[8], ymm3[9], ymm0[9], ymm3[10], ymm0[10], ymm3[11], ymm0[11], ymm3[12], ymm0[12], ymm3[13 ],
   ymm0[13], ymm3[14], ymm0[14], ymm3[15], ymm0[15], ymm3[24], ymm0[24], ymm3[25], ymm0[25], ymm3[26], ymm0[26],
   ymm3[27], ymm0[27], ymm3[28], ymm0[28], ymm3[29], ymm0[29], ymm3[30], ymm0[30], ymm3[31], ymm0[31]}
  ; CHECK-NEXT:    vpunpckhbw [.*+] {ymm5 =
   ymm1[8], ymm0[8], ymm1[9], ymm0[9], ymm1[10], ymm0[10], ymm1[11], ymm0[11], ymm1[12], ymm0[12], ymm1[13 ],
   ymm0[13], ymm1[14], ymm0[14], ymm1[15], ymm0[15], ymm1[24], ymm0[24], ymm1[25], ymm0[25], ymm1[26], ymm0[26],
   ymm1[27], ymm0[27], ymm1[28], ymm0[28], ymm1[29], ymm0[29], ymm1[30], ymm0[30], ymm1[31], ymm0[31]}
  ; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm3
  ; CHECK-NEXT:    vpmullw %ymm5, %ymm4
  ; CHECK-NEXT:    vmovdqa [.*+] {ymm5 =
; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT:    vpunpcklwb {{.*#+}} ymm3 =
  ymm3[0], ymm0[0], ymm3[1], ymm0[1], ymm3[2], ymm0[2], ymm3[3], ymm0[3], ymm3[4], ymm0[4], ymm3[5], ymm0[5], ymm3[6], ymm0[6], ymm3[7], ymm0[7], ymm3[16], ymm0[16], ymm3[17], ymm0[17], ymm3[18], ymm0[18], ymm3[19], ymm0[19], ymm3[20], ymm0[20], ymm3[21], ymm0[21], ymm3[22], ymm0[22], ymm3[23], ymm0[23]
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm1 =
  ymm1[0], ymm0[0], ymm1[1], ymm0[1], ymm1[2], ymm0[2], ymm1[3], ymm0[3], ymm1[4], ymm0[4], ymm1[5], ymm0[5], ymm1[6], ymm0[6], ymm1[7], ymm0[7], ymm1[16], ymm0[16], ymm1[17], ymm0[17], ymm1[18], ymm0[18], ymm1[19], ymm0[19], ymm1[20], ymm0[20], ymm1[21], ymm0[21], ymm1[22], ymm0[22], ymm1[23], ymm0[23]
; CHECK-NEXT:    vpunpcklwb {{.*#+}} ymm4 =
  ymm4[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm3 =
  ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:    vpackuswb %ymm3, %ymm1, %ymm1
; CHECK-NEXT:    vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT:    vpmullw %ymm4, %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:      # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width=""256"  
{  
  ; CHECK-LABEL: mload_v4i32:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
  ; CHECK-NEXT:  vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
  ; CHECK-NEXT:  retq
  %mask = icmp eq <4 x i32> %trigger, zeroinitializer
  %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
open source used in onprem 2.1

ret <4 x i32> %res

} declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* , i32, <4 x i1>, <4 x i32>)

; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; test that we only promote arguments when the caller/callee have compatible
; function attributes.
target triple = "x86_64-unknown-linux-gnu"

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
bb:
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
 bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp) 
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
 }

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
 bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
 }

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
 bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp) 
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
 }

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
 bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
 }

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
 bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

: Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; Run: llc %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL0000000000L00000000000000800000000000000000000000, %mul
    ret fp128 %res
}

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(1)

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)
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com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)
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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)
writes: "This code is under a BSD license and supersedes the older codec packages
on which your code is based. It also includes numerous fixes among them being the
ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order.
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As of Java SE 1.4 an official Image I/O framework was
added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created
to support formats handled by JAI but not included in Java SE
as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
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1.2055 jetty-client 8.1.16.v20140903

1.2056 bind 9.11.4-26.P2.el7_9.5

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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
3a0982da308228d796df35f98d787c5eff2bb5b6.
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 postream 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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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
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</xsl:stylesheet>
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1.2058 spring-web 3.2.11.RELEASE

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yassl http://www.yassl.com/

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zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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fbopenssl

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libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.2065 batik-gui-util 1.6

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* /opt/cola/permits/1001218726_1607601814.66/0/batik-gui-util-1-6-1-jar/org/apache/batik/util/gui/resources/CSSMediaPanel.properties
* /opt/cola/permits/1001218726_1607601814.66/0/batik-gui-util-1-6-1-jar/org/apache/batik/util/gui/resources/LanguageDialogMessages.properties
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* /opt/cola/permits/1001218726_1607601814.66/0/batik-gui-util-1-6-1-jar/org/apache/batik/util/gui/resources/URIChooserMessages.properties
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* /opt/cola/permits/1001218726_1607601814.66/0/batik-gui-util-1-6-1-jar/org/apache/batik/util/gui/resources/UserStyleDialog.properties
1.2066 jetty-webapp 8.1.16.v20140903

1.2067 hk2-api 2.5.0-b42

1.2068 jackson-mapper 1.8.2
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   * /opt/cola/permits/1136271157_1613726236.02/0/jackson-mapper-lgpl-1-8-2-sources-1-
     jar/org/codehaus/jackson/map/MappingJsonFactory.java

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* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/objects/JsonPathJackson2ObjectDeserializer.groovy
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/path/json/config/JsonParserType.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/mapper/factory/Jackson2ObjectMapperFactory.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/mapper/factory/GsonObjectMapperFactory.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/internal/path/json/mapping/JsonPathGsonObjectDeserializer.groovy
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/path/json/config/JsonPathConfig.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/mapper/factory/DefaultJackson2ObjectMapperFactory.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/mapper/factory/Jackson1ObjectMapperFactory.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/mapper/factory/DefaultGsonObjectMapperFactory.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/internal/path/json/ConfigurableJsonSlurper.groovy
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/exception/JsonPathException.java
* /opt/cola/permits/1140604316_1614857493.24/0/json-path-2-4-0-sources-2-jar/com/jayway/restassured/mapper/factory/DefaultJackson1ObjectMapperFactory.java
1.2070 linux-firmware 9.221.4.1-62.el7

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ContiguousSet.java
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/* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java */
/* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Cut.java */
/* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/MapMaker.java */
/* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableTable.java */
/* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/DenseImmutableTable.java */

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Serialization.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Tables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Converter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Range.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/MultiReader.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Joiner.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Ints.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Table.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Collections2.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/FluentIterable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Platform.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Floats.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RangeSet.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/html/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Parameter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingEntrySetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/xml/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
1.2073 commons-digester 1.7

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  jar/org/apache/commons/digester/plugins/RulesFactory.java
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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/overview.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/parser/package.html
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1.2074 bzip2 1.0.6 13.el7

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1.2076 xmltooling 1.3.2-1

1.2077 libdwarf 20130207 4.el7

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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Ty Coon, President of Vice

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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1.2083 ncurses 6.1

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-- vile: txtmode file-encoding=utf-8
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

-------------------------------------------------------------------
Files: *
Licence: X11

Files: aclocal.m4 package
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```
-- vile: txmode file-encoding=utf-8
```

1.2084 rsyslog 8.24.0-57.0.1.el7_9.1

1.2084.1 Available under license:

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lib/libgss/gssd_pname_to_uid.c
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```c
#include /iprop_hdr.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

   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
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   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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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT: '../',
  VERSION: '1.17',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*--' and we don't want to change them.
    if line != '-' and line != '-' and line != '-'
        text_seen = True
    return is_license
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* ([^\s]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                     code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
        f.close()
check_file(lines, fname)
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
   :hidden:
   copyright.rst

.. include:: notice.rst

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```c
/* -. mode: c; c-basic-offset: 4; indent-tabs-mode: nil -. */
/*

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* /opt/cola/permits/1183947561_1637659967.0/0/xmp-im-switch-module-0-8-18-jar/hibernate/xmp-im-switch-module/VirtualSwitchModuleSettings.hbm.xml
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1.2094 linux-firmware 9.221.4.1-80.el7_9
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/**
 * Determines if the [@link #getAuthentication()] has permission to access the target given the permission 
 * @param target the target domain object to check permission on 
 * @param permission the permission to check on the domain object (i.e. "read", "write", etc). 
 * @return true if permission is granted to the [@link #getAuthentication()], else false 
 */

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jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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/**
 * A token issued by [@link TokenService].
 * 
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
 * they can serve as identifying a unique user session. Implementations of [@link TokenService]
 * are free to use encryption or encoding strategies of their choice. It is strongly recommended that
 * keys are of sufficient length to balance safety against persistence cost. In relation to persistence
 * cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 * </p>
 * 
 * @author Ben Alex
 * @since 2.0.1
 */

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* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-
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* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/cryptopassword/NoOpPasswordEncoder.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/cryptopassword/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/cryptopassword/TextEncryptor.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/encrypt/Encryptors.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/encrypt/Digest.java
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* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
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  jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java
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  jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java
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/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null
 * in which case implementations should return false, as the null condition can be checked explicitly
 * in the expression.
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-
  jar/org/springframework/security/access/PermissionEvaluator.java
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ar/jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-
ar/jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-
ar/jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-
ar/jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3-2-3-release-sources-1-
ar/jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java

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ar/jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java
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 */
/**
 * Reviews the <code>Object</code> returned from a secure object invocation,
 * being able to modify the <code>Object</code> or throw an [@link AccessDeniedException]{@api}
 * Typically used to ensure the principal is permitted to access the domain
 * object instance returned by a service layer bean. Can also be used to
 * mutate the domain object instance so the principal is only able to access
 * authorised bean properties or <code>Collection</code> elements.
* Special consideration should be given to using an <code>AfterInvocationManager</code> on bean methods that modify a database. Typically an <code>AfterInvocationManager</code> is used with read-only methods, such as <code>public DomainObject getById(id)</code>. If used with methods that modify a database, a transaction manager should be used to ensure any <code>AccessDeniedException</code> will cause a rollback of the changes made by the transaction.

* */

* @author Ben Alex
*/

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/ *
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
* See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
* */

* @author Luke Taylor
* @since 3.0
*/

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* /opt/cola/permits/1096120234_1601573764.44/0/spring-security-core-3.2.3-release-sources-1.jar/org/springframework/security/crypto/codec/Base64.java

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 */
/*
 * Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.
 * */
* @author Alan Stewart
*/

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  jar/org/springframework/scheduling/quartz/JobDetailAwareTrigger.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
  jar/org/springframework/ui/velocity/CommonsLoggingLogSystem.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
  jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
  jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java

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  jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
  jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
  jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
  jar/org/springframework/mail/MailMessage.java

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jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/ui/freemarker/SpringTemplateLoader.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java

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jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/CronTriggerBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/JobDetailBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerAccessor.java

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/caching/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleTriggerBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/JobDetailBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleTriggerBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/javamail/JavaMailSender.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/MailAuthenticationException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/MailException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerContextAware.java

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/opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
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image/x-xwindowdumpxwd
application/postscriptai eps ps
application/rtfrtf
application/x-textrtex
application/x-texinfo texi
application/x-trofft tr roff
audio/basicau
audio/midimidi mid
audio/x-aicaiicf
audio/x-aiffaiff aiff
audio/x-mpegmpg mpg
audio/x-wawwav
video/mpegmpeg mpg mpe
video/quicktimeq mov
video/x-msvideov avi

#############################################################################
# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
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#
#############################################################################

# TEXT TYPES

text/x-speechtalk
text/csscss
text/csvcsv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmapxbm
# X-Windows pixelmap (8-bit color)
image/x-xpixmapxpm
# Portable Network Graphics
image/x-pngpng
# Image Exchange Format (RFC 1314)
image/iefief
# JPEG
image/jpegjpeg jpg jpe
# RGB
image/rgbrgb
# Group III Fax (RFC 1494)
image/g3faxg3f
# X Windowdump format
image/x-xwindowdumpxwd
# Macintosh PICT format
image/x-pict

# PPM (UNIX PPM package)
image/x-portable-pixmapppm

# PGM (UNIX PPM package)
image/x-portable-graymappgm

# PBM (UNIX PPM package)
image/x-portable-bitmappbm

# PNM (UNIX PPM package)
image/x-portable-anymappnm

# Microsoft Windows bitmap
image/x-ms-bmpbmp

# CMU raster
image/x-cmu-rasterras

# Kodak Photo-CD
image/x-photo-cdpccd

# Computer Graphics Metafile
image/cgmcgm

# CALS Type 1 or 2
image/x-calsmilcal

# Fractal Image Format (Iterated Systems)
image/fifffif

# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf

# CMX vector image (Corel)
image/x-cmxcmx

# Wavelet-compressed (Summus)
image/waveletwii

# AutoCad Drawing (SoftSource)
image/vnd.dwgdwgdwgdw

# AutoCad DXF file (SoftSource)
image/vnd.dxfdxfdxf

# Simple Vector Format (SoftSource)
image/vnd.svfsvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """"basic"""" audio - 8-bit u-law PCM"
audio/basicaudsnd

# Macintosh audio format (Alpplle)
audio/x-aiffaiiffaiiffaiifc

# Microsoft audio
audio/x-wavwav

# MPEG audio
audio/x-mpegmpam bumpedega

# MPEG-2 audio
audio/x-mpeg-2mp2ampa2a

# compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midi
# Koan music data (SSeyo)
application/vnd.koan
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideoavi
# SGI Movie format
video/x-sgi-movie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rfrtf
# Adobe Acrobat PDF
application/pdfpdf
# Maker Interchange Format (FrameMaker)
application/vnd.mifmif
# Troff document
application/x-troff
# Troff document with MAN macros
application/x-troff-man
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latex
# TeX/LateX document
application/x-tex
# GNU TexInfo document
application/x-texinfo
texi
tex
# TeX dvi format
application/x-dvidvi
# MS word document
application/msword
doc DOC
# Office Document Architecture
application/oda
oda
# Envoy Document
application/envoy
envy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
gtar
# 4.3BSD tar format
application/x-tar	tar
# POSIX tar format
application/x-ustar
tar
# Old CPIO format
application/x-bcpio	bcpio
# POSIX CPIO format
application/x-cpio
cpio
# UNIX sh shell archive
application/x-shar
shar
# DOS/PC - Pkzipped archive
application/zip	zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffit	sea
# Fractal Image Format
application/fractals	fif
# "Binary UUencoded"
application/octet-stream	bin uu
# PC executable
application/octet-stream
# "WAIS ""sources"
application/x-wais-sources src wsrc
# NCSA HDF data format
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript js mocha
# UNIX bourne shell program
application/x-sh sh
# UNIX c-shell program
application/x-csh csh
# Perl program
application/x-perl pl
# Tcl (Tool Control Language) program
application/x-tcl tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash spl
# mBED multimedia data (mBED)
application/mbedlet mbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia rad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint ppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asap asp
# Astound Web Player multimedia data (GoldDisk)
application/astound asn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript axs
# OLE Object (Microsoft/NCompass)
application/x-oleobject ods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape opp
# Visual Basic objects (Amara)
application/x-webbasic wba
# Specialized data entry forms (Alpha Software)
# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcn pcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excel xls
# PowerPoint (Microsoft)
application/vnd.ms-powerpoint ppt
# Microsoft Project (Microsoft)
application/vnd.ms-project mpp
# SourceView document (Dataware Electronics)
application/vnd.svd svd
# Net Install - software install (20/20 Software)
application/x-net-install ins
# Carbon Copy - remote control/access (Microcom)
application/ccv ccv
# Spreadsheets (Visual Components)
workbook/formulaone vts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrml wrl wrl
# WIRL - VRML data (VREAM)
x-world/x-vream wiv
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-w3dv w3dv
# QuickDraw3D scene data (Apple)
x-world/x-3dmf 3d

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica ma
# Computational meshes for numerical simulations
x-model/x-mesh msh
# Vis5D 5-dimensional data
application/vis5dv 5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs

# Autocad WHIP vector drawings
drawing/x-dwf/dwf

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/javamail/mime.types

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1.2102 jetty-plus 8.1.16.v20140903

1.2103 nfs-utils 1.3.0-0.68.0.1.el7

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1.2104 libcroco 0.6.12-6.el7_9

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2105 jetty-jaas 9.4.11.v20180605

1.2106 grep 2.20 3.el7
1.2106.1 Available under license:

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* /opt/cola/permits/1197630488_1630081393.99/0/jcl-over-slf4j-1-7-31-sources-jar/org/apache/commons/logging/log4j/NoOpLog.java
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* /opt/cola/permits/1197630488_1630081393.99/0/jcl-over-slf4j-1-7-31-sources-jar/org/apache/commons/logging/log4j/LogConfigurationException.java
* /opt/cola/permits/1197630488_1630081393.99/0/jcl-over-slf4j-1-7-31-sources-jar/org/apache/commons/logging/log4j/SLF4JLog.java

1.2119 ustr 1.0.4-16.el7

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Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.
Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.
If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *icc-f-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.
Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:  
The e-mail address for sending the money to is:  
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:  
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:  
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline
syn region psfAttSpec matchgroup=psfAttrib

Open Source Used In OnPrem2.1 2.2 19601


" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject     Statement
HiLink psfAttrib     Type
HiLink psfQuotString String
HiLink psfObjTag     Identifier
HiLink psfAttAbbrev  PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink
endif

/* Long descriptions and copyrights confuse the syntax highlighting, so
force vim to backup at least 100 lines before the top visible line
looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"

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  2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
1.2121 xpp3-min 1.1.4c

1.2122 libpaper 1.1.24-9.el7

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2123 hostname 3.13 3.el7_7.1
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on Thu, 16 Jan 1997 01:00:34 +0100.

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hostname -- set the host name or show the host/domain name

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1.2124 guava 30.1-jre

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/coli/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
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jar/com/google/common/collection/ImmutableBiMapFauxverideShim.java
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jar/com/google/common/io/LittleEndianDataInputStream.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Internal.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java

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  jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Caches.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCompositeHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Present.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLong.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TreeRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularContiguousSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashCode.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Enums.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/net/HttpHeaders.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/Funnels.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/Funnel.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/ImmutableSortedMultiset.java

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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/ObjectArrays.java

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* the License.
*/
/
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
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  jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Java8Usage.java

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jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Java8Usage.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/JdkBackedImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/IndexedImmutableSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractMultimap.java
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*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
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  jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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  jar/com/google/common/collect/FilteredKeyMultimap.java
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/FileWriteList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashing.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java
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*/

/ *
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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*/
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 */

/*
 * Outer class that exists solely to let us write [@code PartiallyGwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 * 
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures#catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version. 
*/

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Striped64.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CharMatcher.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedMapDifference.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HostSpecifier.java 
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
 * key. <b>Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy</b> 
 * version.
 * 
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {link @code
 * ImmutableSortedMap#of(Comparable, Object)}. </b>
 */

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 */
/**
 * Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
 * version.
 */

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* /

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jar/jersey/repackaged/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/reflect/Parameter.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/ cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/ImmutableEnumMap.java
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 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
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jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
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jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
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jar/jersey/repackaged/com/google/common/reflect/TypeToken.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/Lists.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collect/UsingToStringOrdering.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/collect/TreeMultiset.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
jar/jersey/repackaged/com/google/common/collect/Iterators.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
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jar/jersey/repackaged/com/google/common/collect/SortedSetMultimap.java
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jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMap.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/SortedLists.java
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  jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java

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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/Range.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/primitives/Ints.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedSet.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/ImmutableMapValues.java
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* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSet.java
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  jar/jersey/repackaged/com/google/common/collections/ComputationException.java
  */opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
  jar/jersey/repackaged/com/google/common/util/concurrent/SettableFuture.java
  */opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-
/* limitations under the License.
*/

/*
 * This method was written by Doug Lea with assistance from members of JCP
 * JSR-166 Expert Group and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
 */

Found in path(s):
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/util/concurrent/Striped.java
No license file was found, but licenses were detected in source scan.

/*
 * Written by Doug Lea with assistance from members of JCP JSR-166
 * Expert Group and released to the public domain, as explained at
 * http://creativecommons.org/publicdomain/zero/1.0/
 */

Found in path(s):
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/cache/Striped64.java
* /opt/cola/permits/1137436181_1614079851.73/0/jersey-guava-2-17-sources-2-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java

1.2126 bouncy-castle 1.56

1.2126.1 Available under license :

<html>
<body bgcolor=#ffffff>
The following organisations and people have contributed to the Bouncy Castle Cryptography Package.
<p>Thanks, may your castles never deflate!
<p>Donors
<p>The following people and organisations donated financially to help with the release of 1.56:
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DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter  
</p>
<p>We also wish to acknowledge financial support from the <a href="https://www.coreinfrastructure.org/">Core
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Brett Sealey <bretts@#064;mortbay.com> - fixing the missing return problem in JDKKeyFactory (affected SSL/Java private keys).

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Jonathan Knudsen <jonathan@#064;LearningPatterns.com> - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann <markus.niedermann@#064;softwired-inc.com> - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham <moxie@#064;thoughtcrime.org> - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

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Uwe Guenther <uwe@#064;xcc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

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SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes.

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Martin Petraschek <e9526225@student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.

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Shankar Srinivasan <srs002@6046.yahoomail.com> - S/Mime interoperability testing and debugging.

Stef Hoenen <ilsestef@6046.skynet.be> - adding Montgomery multiplication to the BigInteger class.

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Thomas Houtekier <Thomas.Houtekier@6046.tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.

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Joel Hockey <joel.hockey@6046.qsipayments.com> - initial work on the openSSL PEM processing.

John Steenbruggen <JohnS@6046.geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske <justin@6046.chapweske.com> - ordering patch for Tiger message digest.
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Sascha Weinreuter <Sascha.Weinreuter@cit.de> - fixed SMIME saveChanges() bug.

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Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.

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Jarek Gawor <gawor@mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

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J&amp;ouml;rn von Kattch&amp;eacute;e <J.Kattchee@64:seeburger.de> - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso <matartuso@64:libero.it> - picking up the possible overread in ASN1InputStream.

Julian Morrison <julian@64:entropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein <eso@64:esomail.de> - fix to long conversion in clean room SecureRandom.

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Johan Seland <johans@64:netfonds.no> - general toString for BigInteger class.

Johannes Nicolai <johannes.nicolai@64:4novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva <marc.doberva@64:ilex-si.com> - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak <jan.dvorak@64:mathan.cz> - initial implementation of the light weight Null block cipher.

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Chris Long <aclong@ece.cmu.edu> - adding public key decoding to PEMReader.

Hes Siemelink <hes@64:izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu <stefanpuiuro@64:yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang <kaiseryang@64:yahoo.com> - Finding BigInteger loop problem in prime generation.
<li>Jiri Urbanec <jiri.urbanec@logicacmg.com> - patch to fix defect in DERBMPString.equals().</li>
<li>Justin Kolb <jkolb@064prixt.com> - patch toDSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>
<li>Ralf Hauser <ralfhauser@064gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.</li>
<li>Michal Dvorak <M_Dvorak@064kb.cz> - getNextUpdate patch for OCSP SingleResp.</li>
<li>Oliver Refalo <Olivier_Refalo@064fpl.com> - null pointer exception fix for JDK 1.3 CMSData objects.</li>
<li>Jiri Urbanec <jiri.urbanec@logicacmg.com> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein <brien.oberstein@064transactools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>
<li>Jonathan Edwards <34gull@064mac.com> - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton <andrew@064carent.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander <gl@064kos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.</li>
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<li>Peter Sylvester <Peter.Sylvester@064delweb.fr> - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug <ummmmm@064myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>Francois Staes <fsaes@064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer <wdittmer@064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto <laperez@064banxico.org.mx> - patch to use of BitString in X.500 name.</li>
<li>James Wright <James.Wright@064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford <jim@064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler <haeusler@064pontont-consulting.de> - extra aliases for provider.</li>
<li>Sai Pullabhotla <psai@064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller <joseph@064digiweb.net.nz> - addition of ZeroByte Padding.</li>
<li>Lars <xyz@064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jerone van Vianen <jerone@064vianvianen.nl> - the Signed and Encrypted mail example.</li>
<li>Jun Sun <JSun@064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem <spdkem@064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva <filipe.silva@064wedoconsulting.com> - patch to fix overead issue in BCPGInputStream.</li>
<li>Alpesh Parmar <alps@064linuxmail.org> - patch for class cast problem in PGPPublicKey, getSignatures.</li>
<li>Jay G Engelbach <jengelbach@064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug <doug@064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring
Matthew Mundy <mmundy1@umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill <cargill@064procon.com> - spelling patch in provider.

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Zanotti Mirko <zanotti@064cad.it> - patch to ordered equality test for X509Name.

Nicola Scendoni <nsendoni@064belpis.it> - patch to add sorting to CertPath validation.

Ville Skyttä &amp;uml; <ville.skyttä@064iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object “TRUSTED CERTIFICATE”. Exception handling patch in PEMReader. JavaDoc clean up.

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Albert Moliner <amoliner@064evintia.com> - initial TSP implementation.

Carlos Lozano <carlos@064evintia.com> - initial TSP implementation, patch to SignerInformation for supported repeated signers, initial updates for supporting repeated attributes in CMS.

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Franck Leroy <Franck.Leroy@064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka <ymnk@064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

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Steve Mitchell <mitchell@064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner <D.Eisner@064seeburger.de> - initial implementation of ISO 7816-4 padding.

Julien Pasquier <julienpasquier@064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo <matartuso@064libero.it> - sequence patch to ASN1Dump.

Andrew Paterson <andrew.paterson@064burnsec.com> - patches to PGP tools, isRevoke method on PGPPublicKey.

Vladimir Molotkov <vladimir.molotkov@064intel.com> - extensive provider exception handling compliance testing.

Florin Kollan <adlocflo@064web.de> - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev <paulvas@064gmail.com> - Initial GOST28147Mac implementation.
<li>Tom Pesman <tom@064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>
<li>Łukasz Kowalczyk <łukasz.b.kowalczyk@064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch <Arndt.Hasch@064maxence.de> - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirpool.</li>
<li>David M. Lee <dmlee@064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon <smd5@064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung <t2cung@064hotmail.com> - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz <cschultz@064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee <dmlee@064Crossroads.com> - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees <rees@064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau <francesc.sau@064partners.netfocus.es> - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee <bugbee@064mac.com> - initial ECNR implementation.</li>
<li>Remi Blancher <Remi.Blancher@064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke <brianorourke@064gmail.com> - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier <andreas.schwier@064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse <david.josse@064transacttools.net> - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiro <kazu-k@064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan <lwntcan@064gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente <superdupont@064gmail.com> - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, <olaf.keller.bc@064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>J&ouml;rg Eichhorn <jouml;rg.eichhorn@064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme <kohm@064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPonPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

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- Stefan Neusatz Guilhen <sneusatz@064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

- Marzio Lo Giudice <marzio.logiudice@064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

- Georg Lippold <georg.lippold@064gmx.de> - initial implementation of NaaccacheStern cipher.

- Chris Viles <chris_viles@064yahoo.com> - fix to SignatureSubpacket critical bit setting.

- Pasi Eronen <Pasi.Eronen@064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

- Lijun Liao <lijun.liao@064rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.

- Maria Ivanova <maria.ivanova@064gmail.com> - support for tags > 30 in ASN.1 parsing.

- Armin Haumlberling <armininha@064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

- Marius Schilder <mschilder@064google.com> - main set of test vectors for Bleichenbacher's forgery attack.

- Xavier Le Vourch <xavier@064brittanysoftware.com> - general code clean ups.

- Erik Tews <e_tews@064dc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

- Thomas Dixon <tekomusha@064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

- Frank Cornelis <info@064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.

- Rui Joaquim <rjoaquim@064cc.isel.ipl.pt> - initial implementation of RSA binding for signatures.

- David Stacey <DStacey@064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

- Martijn Brinkers <list@064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

- Julius Davies <juliusdavies@064gmail.com> - additional modes and algorithm support in PEMReader.

- Matthias <g@064rtner.de> - GnuPG compatibility changes for PBESFileProcessor.

- Olga Kaumlthler <olga.kaethler@064hjpc-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

- Germano Rizzo <germano.rizzo@064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

- N&uuml;ria Mar&iacute; <numaa@064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.

- Janis Schuller <js@064tzi.de> - addition of NotationData packets for OpenPGP.

- Michael Samblanet <mike@064samblanet.com> - patches towards improved Sun/default provider support in CMS.

- Mike StJohns <mstjohns@064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECSA.

- Ramon Keller <ramon.keller@064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
<li>Mark Nelson <mark@nbnr.com> - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov <eugene_gff@oakr.net> - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier <julienspasquier@064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <pknopp@064mgtn.de> - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz <sgwozdiu@064pg.pl> - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski <bmalkowski@064tigase.org> - initial implementation of VMPC cipher, VMPCRandGenerator, VMPCMac.</li>
<li>Tal Yacobi <tal.yacobi@064octaviantech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi <massimiliano.ziccardi@064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko <andrey.a.pavlenko@064gmail.com> - security manager patch for PKCS1Encoding property check.</li>
<li>Mike StJohns <mstjohns@064comcast.net> - updates to KeyPurposeId.</li>
<li>J Ross Nicoll <jrn@064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <mavricknz@064yahoo.com> - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini <gcontini@064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEFS.</li>
<li>Roelof Naude <roelof.naude@064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck <speck@064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre <ale@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].</li>
<li>David Novice <david@064signaturen.at> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].</li>
<li>Added null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTimeTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañagilda:aga <ilarra@064s21sec.com> fix to default partial packet generation in BCPOutputStream.</li>
<li>Bob Kerns <bob.kerns@064positscience.com> fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer <stefan.meyer@064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore <Robert.J.Moore@064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic <emir.bucalovic@064mail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson <tobbe79@064gmail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick <bouncycastle@064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit <cagdascirit@064gmail.com> subjectAlternativeName fix for x.509CertStoreSelector.</li>
<li>Harakiri <harakiri@23@064yahoo.com> datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques <pmahenriques@064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer <job@064kimmeringer.de> verbose mode for ASN1Dump, support for
Richard Farr <rfarr.se@#064gmail.com> initial SRP-6a implementation.<li/>
Thomas Castiglione <castiglione@#064au.ibm.com> patch to encoding for CRMF OptionalValidity.<li/>
Elisabetta Romani <eromani@#064sogei.it> patch for recognising multiple counter signatures.<li/>
Robin Lundgren <r737lundgren@#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.<li/>
Petr Kadlec <smornegil@#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.<li/>
Andreas Antener <antener_a@#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.<li/>
Harendra Rawat <hsrawat@#064yahoo.com> fix for BERConstrustedOctetString.<li/>
Rolf Lindemann <lindemann@#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications. [#BMA-42].<li/>
Alex Artamonov <alexart.home@#064gmail.com> name look up patch for GOST-2001 parameters.<li/>
Mike Lyons <mlyons@#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.<li/>
Chris Cole <chris_h_cole@#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.<li/>
Tom Krivanek <tom@#064attack.cz> added checking of Sender header to SignedMailValidator.<li/>
Michael <emfau@#064t-online.de> correction of field error in getResponse method in CertRepMessage.<li/>
Trevor Perrin <trevor@#064cryptography.com> addition of constant time equals to avoid possible timing attacks.<li/>
Markus Kilaring <markus@#064primekey.se> several enhancements to TimeStampResponseGenerator.<li/>
Dario Novakovic <darionis@#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.<li/>
Michael Smith <msmith@#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.<li/>
Andrea Zilio <andrea.zilio@#064gmail.com> fix for PEM password encryption of private keys.<li/>
Alex Birkett <alex@#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].<li/>
Wayne Grant <waynedgrant@#064gmail.com> additional OIDs for PCKS10 and certificate generation support.<li/>
Frank Cornelis <info@#064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.<li/>
Jan Dittberner <jan@#064dittberner.info> addHeader patch for SMIME generator.<li/>
Bob McGowan <boab.mcgoo@#064btinternet.com> patch to support different content and mgf digests in PSS signing.<li/>
Ivo Matheis <i.matheis@#064seeburger.de> fix to padding verification in ISO-9796-1.<li/>
Marco Sandrini <nessche@#064gmail.com> patch to add IV to ISO9797Alg3Mac.<li/>
Alf Malf <alfmail@#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.<li/>
Alfonso Massa <alfonso.massa@#064insiel.it> contributions to CMS time stamp classes.<li/>
Giacomo Boccardo <gboccardo@#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.<li/>
Arnis Tartu <arnis@#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.<li/>
Janusz Sikocinski <J.Sikocinski@#064gdzie.pl> addition of Features subpacket support to OpenPGP API.<li/>
Juri Hudelejev <jhudelejv@#064gmail.com> JavaDoc fix to CMSSignedDataParser.<li/>
Liane Velten <liane.velten@#064hjp-consulting.com> fine tuning of code for DHParameters validation.<li/>
Shawn Willden <swillden@#064google.com> additional functionality to GPGKeyRing.<li/>
Atanas Krachev <akrachev@#064gmail.com> added support for revocation signatures in OpenPGP.<li/>
Mickael Laiking <mickael.laiking@#064keynectis.com> initial cut of EAC classes.<li/>
Tim Buktu <tbuktu@#064hotmail.com> Initial implementation of NTRU signing and encryption.
Bernd <rbernd@gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak@BEKK.no> Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid@ongtech.com> Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <p.petrov@bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick <daniel.f.nwr@gmail.com> Initial implementation of ephemeral key support for IES, initial implemenations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <Andy.Neilson@quest.com>a further patches to deal with multiple providers and PEMReader.

Ted Shaw <xiaoxj@gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth <Eleriseth@WPECGLtYbV8Rl6Y7Vzl2Lvd2EUVW99v3yNV3iWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root <kenny@604the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject. BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes <maarten.bodewes@gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay <phil_b@yahoo.com> Initial implementation of J-PAKE.

Brian Carlstrom <bdc@carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell <samuel@primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner <sergiolerner@604certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington <Tim.Whittington@604orionhealth.com> patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekoe and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad <marcus.lundblad@primekey.se> patch for working arnoud JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin <zhozhin@604xrm.ru> patch for override of TSP SignerInfo attributes.

Sergey Tiunov <ti5555d@gmail.com> initial cut of DVCS classes.

Damian Kolasa <fatfreddy@604gmail.com> ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes <ashley.hughes@604blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher <dev@604daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM
files.</li>
<li>Daniele Ricci <daniele.athome@gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio <matti.aarnio@methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>
<li>Babak Najafi <bnajafi@akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;ller &lt;eric.mueller@064age.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Matti Aarnio <matti.aarnio@methics.fi> initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
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<li>Eric M&amp;uuml;ller &lt;eric.mueller@064age.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.
of Blake2bDigest.</li>
<li>Derek Atkins <derek@064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto@064halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre <https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot <thomas.belot+BC@064gmail.com> InitialCertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce <https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bjourni rn Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schumann <https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in GPSPublicKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael <MSKnet@web.de> initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner <tobias.wagner@064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro <sgiro@064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBES.java, check for salt in PBEKeys that require it.</li>
<li>bschuette <https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot <https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen <j.w.janssen@bouncycastle@064xtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer <kai.kramer@064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles <benoit.charles@opentrust.com> Fix for IES data length check on decryption.</li>
<li>Niko <nfink@064gmail.com> fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran <https://github.com/akwizgran> Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff <Matthias.Edelhoff@cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat <lukasz.deputat@064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].</li>
<li>Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGOBjectFactory to handle stream packets at start of iterated data.</li>
<li>Andrei eacute; Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski <https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton <wglanton77@064gmail.com> Fixed bug in Poly1305 [#BJA-620].</li>
<li jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle <jnaegle@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.

The Intel Security Team analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.

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jar/org/springframework/scheduling/config/IntervalTask.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-
jar/org/springframework/scheduling/support/CronTrigger.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-
jar/org/springframework/format/datetime/joda/JodaTimeContext.java
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jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
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jar/org/springframework/context/support/MessageSourceResourceBundle.java
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jar/org/springframework/scheduling/support/CronSequenceGenerator.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
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* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
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* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2.jar/org/springframework/jmx/export/annotation/ManagedNotification.java
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jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
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jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
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jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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  jar/org/springframework/instrument/classloading/jboss/JBossModulesAdapter.java
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  jar/org/springframework/cache/interceptor/CacheInterceptor.java
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*/
/**
 * [FactoryBean] that obtains a WebSphere [MBeanServer] reference through WebSphere's proprietary [AdminServiceFactory] API, available on WebSphere 5.1 and higher.
 * Exposes the [MBeanServer] for bean references. This FactoryBean is a direct alternative to [MBeanServerFactoryBean], which uses standard JMX 1.2 API to access the platform's MBeanServer.
 * See Javadoc for WebSphere's [AdminServiceFactory] and [MBeanFactory].
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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  jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
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  jar/org/springframework/context/annotation/ImportResource.java
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  jar/org/springframework/scheduling/support/executor/ExecutorBeanDefinitionParser.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-
  jar/org/springframework/context/event/SmartApplicationListener.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-
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  jar/org/springframework/scheduling/support/RuntimeValidationPostProcessor.java
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  jar/org/springframework/validation/beanvalidation/SmartValidatorFactory.java
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jar/org/springframework/instrument/classloading/glassfish/GlassFishClassLoaderAdapter.java
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* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java
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* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1152388315_1618226480.99/0/spring-context-3-2-3-release-sources-2-jar/org/springframework/context/ApplicationContextAware.java
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1.2136 diffutils 3.3 5.el7
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/* diff - compare files line by line

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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <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). */
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[] =
"0123456789abCc:DEfF:hHiI:LnNpPqrsStTuU: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[] =
{
    "--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, 'r' \},
    \{ "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, 't' \},
    \{ "rcs", 0, 0, 'n' \},
    \{ "recursive", 0, 0, 'r' \},
    \{ "report-identical-files", 0, 0, 's' \},
/* 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]);
    }
static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
case 0:
    break;

case '0':
    break;

case '1':
    break;

case '2':
    break;

case '3':
    break;

case '4':
    break;

case '5':
    break;

case '6':
    break;

case '7':
    break;

case '8':
    break;

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)
            if (stroumax (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[] =
    "%%=%c#ifndef %s
    %%<#endif /* ! %s */
    %c#ifdef %s
    %%>#endif /* %s */
    %c#ifndef %s
    %%<#else /* %s */
    %c#ifdef %s
    %%>#endif /* %s */
    "
    char *b = xmalloc (sizeof C_ifdef_group_formats
    + 7 * strlen (optarg) - 14 /* 7*"%s" */
    - 8 /* 5*"%%" + 3*"%c" */);
    sprintf (b, C_ifdef_group_formats,
    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 'T:
    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 'I':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
#ifndef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else

fatal ("too many file label options");
break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[:alpha:]$_\]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
break;

case 'V':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
        exclude_options (), '\n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
        {
            if (width)
                fatal ("conflicting width options");
            width = numval;
        }
    break;

case BINARY_OPTION:
    #if O_BINARY
        binary = true;
        if (! isatty (STDOUT_FILENO))
            set_binary_mode (STDOUT_FILENO, O_BINARY);
    #endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length ""%s"", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case 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 = strtolmax(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(OUTPUTIFDEF);
        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(OUTPUTIFDEF);
        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
   /* 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 =
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;
}
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"

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LETTERs are as follows for new group, lower case for old group:
F  first line number
L  last line number
N  number of lines = L-F+1
E  F-1
M  L+1

%(A=B?T:E)  if A equals B then T else E

LFMT (only) may contain:
%L  contents of line
%l  contents of line, excluding any trailing newline
%[-][WIDTH][.PREC]{doxX}n  printf-style spec for input line number

Both GFMT and LFMT may contain:
%\%  %
%c'C'  the single character C
%c'\OOO'  the character with octal code OOO
C    the character C (other characters represent themselves)

-d, --minimal  try hard to find a smaller set of changes
--horizon-lines=NUM  keep NUM lines of the common prefix and suffix
--speed-large-files  assume large files and many scattered small changes
--help  display this help and exit
--version  output version information and exit

FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.

If --from-file or --to-file is given, there are no restrictions on FILE(s).
If a FILE is '-', read standard input.
Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.

static void
usage (void)
{
  char const * const *p;

  printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
  printf (_("Compare FILES line by line.\n"));
  fputs (_("\n"), stdout);

  for (p = option_help_msgid;  *p;  p++)
    {
      if (!*p)
        putchar ('\n');
      else
        printf (_("%s\n"), *p);
        printf (_("\n"));
    }
}


{ 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));
  #endif
}
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
#endif

#ifdef STAT_TIMESPEC_NS
STAT_TIMESPEC_NS(st, st_mtim) = t.tv_nsec;
#else
if 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. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
    /* Define DIR_P(f) to test if 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

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_DECODER (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)
else if (cmp.file[0].desc == NONEXISTENT
   && cmp.file[1].desc == NONEXISTENT)
{
   /* Neither file "exists", so there's nothing to compare. */
}

else if (2 < 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 (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))
{
   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))
   || !((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_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_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,
  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,
}
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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1.2137 tim-api 1.3.0
1.2137.1 Available under license:
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   ===============

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DESCRIBES THE CLAIM AND THE PARTY MAKING THE CLAIM IN SUFFICIENT DETAIL
THAT A RECIPIENT WILL KNOW WHOM TO CONTACT. IF CONTRIBUTOR OBTAINS SUCH
KNOWLEDGE AFTER THE MODIFICATION IS MADE AVAILABLE AS DESCRIBED IN
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## Unicode Character Database v6.2

### Unicode Character Database

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rt/modules/javafx.media/src/main/native/gstreamer/3rd_party/glib/

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<td>MIT, generally</td>
</tr>
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<td>Gallium code</td>
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## Dynalink v.5

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  jar/groovy/json/JsonTokenType.java
* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-
  jar/groovy/json/StreamingJsonBuilder.groovy
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* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-jar/groovy/json/internal/Cache.java
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* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-jar/groovy/json/JsonOutput.java
* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-jar/groovy/json/JsonException.java
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* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-jar/groovy/json/JsonDelegate.java
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* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-jar/groovy/json/internal/Dates.java
* /opt/cola/permits/1152477778_1618244840.87/0/groovy-json-2-3-7-sources-1-jar/groovy/json/internal/MapItemValue.java
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 *
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 *
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 *
 * V. Abell <abe@purdue.edu>
 * Purdue University
 */

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* has no POSIX-conformant regular expression function set. When that is
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*/

/* Definitions for data structures and routines for the regular
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THE BASIC LIBRARY FUNCTIONS

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* @version 3.0 (December 2000)
* * Optimised ANSI C code for the Rijndael cipher (now AES)
* * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Version 3, 29 June 2007

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* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/model/ViewStateModel.java
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1.2182 jersey-server 1.9.1

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* /opt/cola/permits/1152476841_1618244890.07/0/spring-beans-1-2-7-sources-1-jar/org/springframework/beans/NotReadablePropertyException.java
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jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
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jar/org/springframework/beans/factory/support/MethodOverride.java
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++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]j0 & 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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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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====
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* /opt/cola/permits/1135935719_1613638589.97/0/sequence-library-1-0-3-sources-2-jar/de/regnis/q/sequence/core/QSequenceSnakeRegister.java
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* /opt/cola/permits/1135935719_1613638589.97/0/sequence-library-1-0-3-sources-2-jar/de/regnis/q/sequence/line/simplifier/QSequenceLineSimplifier.java
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1.2218 libgusb 0.2.9 1.el7

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### 1.2234 libgnomecanvas 2.30.3 8.el7

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41. [44] Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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46. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53] Michael Shields <shields@tembel.org> USNO clock driver
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makeover, various other bits (see the ChangeLog)
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56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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src/preproc/grn/gprint.h
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src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
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src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
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src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
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. The file `tmac/hyphen.fr` contains the same patterns as the file
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http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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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

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* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/framework/ProxyFactoryBean.java
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* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/framework/AbstractPrototypeBasedTargetSource.java
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* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
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* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2-jar/org/springframework/aop/config/AspectAutoProxyBeanDefinitionParser.java
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* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
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* /opt/cola/permits/1136702287_1613865276.18/0/spring-aop-3-2-11-release-sources-2.jar/org/springframework/aop/config/AspectComponentDefinition.java
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1.2263 microcode-ctl 2.1-73.11.el7_9
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1.2267 fping 3.10-4.el7

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1.2269 fcgi-server 9.4.11.v20180605

1.2270 gir1.2-gdkpixbuf-2.0 2.36.12 3.el7

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1.2272 python-hwdata 1.7.3-4.el7

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libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
courage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
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programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
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Although the Lesser General Public License is Less protective of the
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linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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1.2275 jsch-agentproxy-usocket-jna 0.0.7

1.2276 vim 7.4.629-8.el7_9
1.2276.1 Available under license:
*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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http://iccf-holland.org/
http://www.vim.org/iccf/
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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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- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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==============================================================================
Kibaale Children's Centre *KCC* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*Donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small
organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA:The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada:Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland:Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is: Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
  Postbank, account 4548774  
  Swift code: INGB NL 2A  
  IBAN: NL95 INGB 0004 5487 74  
  under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117  
  Swift code: RABO NL 2U  
  under the name "Bram Moolenaar", Lisse  
  Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
vim:tw=78:ts=8:ft=help:norl:
/
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               Internet: lehors@sophia.inria.fr
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                    2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
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1.2277 perl-parent 0.225-244.el7
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Found in path(s):
* /opt/cola/permits/1176988803_1625002901.48/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-G9vKyeyU/parent-0.225.tar.gz-cosi-expand-archive-itvfSwZ/parent-0.225/META.yml
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parent - Establish an ISA relationship with base classes at compile time

package Baz;
use parent qw(Foo Bar);

DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from
those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
    require Foo;
    require Bar;
    push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you
can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within
a differently named file:

    package MyHash;
    use Tie::Hash;
    use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

    package MyHash;
    require Tie::Hash;
    push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that \c<require>\ would
not consider an eligible filename (that is, it does not end in
either \c<pm> or \c<pmc>), use the following code:

    package MySecondPlugin;
    require './plugins/custom.plugin'; # contains Plugin::Custom
    use parent -norequire, 'Plugin::Custom';

=head1 DIAGNOSTICS

=over 4

=item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

    package Foo;
    use parent 'Foo';

=back

=head1 HISTORY

This module was forked from L<base> to remove the cruft
that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern
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1.2279 spring-instrument-tomcat

4.1.4.RELEASE

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 */

Found in path(s):
* /opt/cola/permits/1152322785_1618219209.54/0/spring-instrument-tomcat-4.1.4-release-sources-1.jar/org/springframework/instrument/classloading/WeavingTransformer.java
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* /opt/cola/permits/1152322785_1618219209.54/0/spring-instrument-tomcat-4.1.4-release-sources-1-
  jar/org/springframework/instrument/classloading/tomcat/TomcatInstrumentableClassLoader.java

1.2280 commons-lang3 3.3.2

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1.2281 xmlgraphics-commons 2.4

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1.2282 asm 5.0.1.v201405080102

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1.2283 httpcomponents-core 4.2

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*/
/*
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
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+ trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
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# This is a Makefile stub which handles the creation of BSD shared
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#
# 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) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.
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Gadi Oxman, August 1995

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/* * It does require the zlib library and optionally the IJG jpeg library, * *
/* * and/or the "little-cms" library by Marti Maria (depending on the * *
/* * inclusion of support for JNG and Full-Color-Management respectively. * *
/* * */
/* * This library's function is primarily to read and display MNG * *
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/* * component! It does however offer creation and editing functionality * *
/* * at the chunk level. * *
/* * (future modifications may include some more support for creation * *
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/* * */
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MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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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
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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
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.2287 aws-java-sdk-kms 1.11.277

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1.2292 ip-address 1.0.23

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1.2293 sdl 1.2.15-17.el7

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October 28, 1997
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Sam Lantinga(slouken@libsdlo.org)
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* /opt/cola/permits/1147876728_1617157702.5/0/spring-ldap-1-3-1-release-sources-5.jar/org/springframework/ldap/ldif/parser/Parser.java
* /opt/cola/permits/1147876728_1617157702.5/0/spring-ldap-1-3-1-release-sources-5.jar/org/springframework/ldap/core/support/DefaultDirObjectFactory.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/AccessControlException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/EnterpriseSecurityException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/AuthenticationCredentialsException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/validation/CreditCardValidationRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/CertificateException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/UnixCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/IntegerAccessReferenceMap.java
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jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLoggerFactory.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/ReferenceEncryptedProperties.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/FileBasedAuthenticator.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java
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 * @author Matt Seil (mseil .at. owasp.org)
 * @created 2017
 *
 * @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
 * href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/AbstractCharacterCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/AbstractIntegerCodec.java
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* @author Patrick Higgins
* @created 2010
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Found in path(s):
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* @author Matt Seil (mseil .at. owasp.org)
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* href="http://www.aspectsecurity.com">Aspect Security</a>
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Found in path(s):
* `/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/PushbackString.java`
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Found in path(s):
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
*
* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultValidator.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
*
* @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Encryptor.java
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/**
* The method is ESAPI's Key Derivation Function (KDF) that computes a
* derived key from the { @code keyDerivationKey} for either
* encryption / decryption or for authentication.
*/
* <p>
* <b>CAUTION:</b> If this algorithm for computing derived keys from the
* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
* able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!
* <p>
* <p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class [@code JavaEncryptor]
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
* 
* * @param keyDerivationKey  A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* {[@link CryptoHelper#generateSecretKey(String, int)]. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* * @param keySizeThe cipher's key size (in bits) for the [@code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* * <p>
* <b>Note:</b> The derived key will have the same size as this.
* * @param purposeThe purpose for the derived key. For the ESAPI reference implementation,
* [@code JavaEncryptor], this <i>must</i> be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [@code null] or an empty string when called outside
* of [@code JavaEncryptor].
* * @return  The derived [@code SecretKey] to be used according
* to the specified purpose.
* * @throws NoSuchAlgorithmException  The [@code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* * @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* * @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* * @throws EncryptionException  Throw for some precondition violations.
* */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/crypto/KeyDerivationFunction.java
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// version.

Found in path(s):
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 *
 * @created 2007
 */
/**
 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by either specially logging the event, logging out the current user, or invalidating the current user's account.
 *
 * Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from anywhere and will not require a lot of special exception handling.
 *
 * @author Jeff Williams (jeff.williams@aspectsecurity.com)
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/IntrusionException.java
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*/
/**
 * Return a <code>List</code> of strings of combined cipher modes that support<br>
 * <b>both</b> confidentiality and authenticity. These would be preferred<br>
 * cipher modes to use if your JCE provider supports them. If such a<br>
 * cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of<br>
 * the <code>CipherText</code> object upon encryption nor is any attempt made<br>
 * to verify the same on decryption.<br>
 */

The list is taken from the comma-separated list of cipher modes specified<br>
by the ESAPI property<br>
<code>Encryptor.cipher_modes.combined_modes</code>.<br>

@return The parsed list of comma-separated cipher modes if the property<br>
was specified in <code>ESAPI.properties</code>; otherwise the empty list is<br>
returned.<br>
*/

Found in path(s):
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 *
 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008<br>
 */

Found in path(s):
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
 */

Found in path(s):
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 * @created 2007
 */

/**
 */

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/**
 * This method adds a provider to the {code SecurityManager}
 * either by some generic name or by the class name.
 * </p>
 * The following generic JCE provider names are built-in:
 * <ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See {link "http://jce.iaik.tugraz.at/"} for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ({link "http://www.bouncycastle.org/"}) is probably your best bet. The
 * BC provider does support many of the "combined cipher modes" that provide
 * both confidentiality and authenticity. (See the {code ESAPI.properties}
 * property {code Encryptor.cipher_modes.combined_modes} for details.)
 * </p>
 * For those working in the U.S. federal government, it should be noted
 * that none of the providers listed here are considered validated
 * by NIST's Cryptographic Module Validation Program and are therefore
 * considered FIPS 140-2 compliant. There are a few approved
 * JCE compatible Java libraries that are on NIST's CMVP list, but this
 * list changes constantly so they are not listed here. For further details
 * on NIST's CMVP, see
 * {link "http://csrc.nist.gov/groups/STM/cmvp/index.html"}.
 * </p>
 * Finally, if you wish to use some other JCE provider not recognized above,
 * you must specify the provider's fully-qualified class name (which in
 * turn must have a public, no argument constructor).
* The application must be given the [@code SecurityPermission] with a
* value of [@code insertProvider.&lt;provider_name&gt;] (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.

* @param algProvider Name of the JCE algorithm provider. If the name
  * contains a "." , this is interpreted as the name
  * of a [@code java.security.Provider] class name.
* @param pos The preference position (starting at 1) that the
  * caller would like for this provider. If you wish
  * for it to be installed as the <i>last</i> provider
  * (as of the time of this call), set [@code pos] to -1.
* @return The actual preference position at which the provider was added,
  * or -1 if the provider was not added because it is already
  * installed.
* @exception NoSuchProviderException - thrown if the provider class
  * could not be loaded or added to the [@code SecurityManager] or
  * any other reason for failure.

*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/ESAPI.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/

// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

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* @author Chris Schmidt (chris.schmidt@owasp.org)
* @created 2010
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 * @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
 * @created 2009
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/util/DefaultMessageUtil.java
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 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/Action.java
jar/org/owasp/esapi/waf/actions/DoNothingAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/RestrictContentTypeRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/BeanShellRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/IPRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created February 6, 2009
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/ClickjackFilter.java
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/META-INF/maven/org.owasp.esapi/esapi/pom.xml
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* @author Jeff Williams [Aspect Security](http://www.aspectsecurity.com)

* @created 2007

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 * @author Jeff Williams [Aspect Security](http://www.aspectsecurity.com)
 * @created 2007
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* @created 2007
*/

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/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 * the command to execute
 * @param params
 * the parameters of the command being executed
 * @param workdir
 * the working directory
 * @param codec
 * the codec to use to encode for the particular OS in use
 * @param logParams
 * use false if any parameters contains sensitive or confidential information
 *
 * @return the output of the command being run
 *
 * @throws ExecutorException
 * the service exception
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Executor.java
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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>
 * (based on version 2.2.2).</p>
 * *
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * <tt>encodeBytes( bytes, options )</tt> the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.</p>
 * *
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 * *
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</code>
 * */

---

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to compress the data before encoding it and then making the output have no newline characters.

Original change Log:

<ol>
  <li>v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the Base64.InputStream class to encode and decode on the fly which uses less memory than encoding/decoding an entire file into memory before writing.</li>
  <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~ < 40 bytes).</li>
  <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects: The default is RFC3548 format. Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfc/rfc3548.html Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.</li>
  <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>
  <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
  <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
  <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int s that you "OR" together).</li>
  <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).</li>
  <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.</li>
</ol>
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.

* <ul>
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
* </ul>

* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/Base64.java
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* @created 2007
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/**
* The method is ESAPI's Key Derivation Function (KDF) that computes a
* derived key from the `keyDerivationKey` for either encryption/decryption or for authentication.

<p>
* <b>CAUTION:</b> If this algorithm for computing derived keys from the key derivation key is ever changed, we risk breaking backward compatibility of being able to decrypt data previously encrypted with earlier/different versions of this method. Therefore, do not change this unless you are 100% certain that what you are doing will NOT change either of the derived keys for ANY "key derivation key" AT ALL!!!

<p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class `JavaEncryptor` and might be useful for someone implementing their own replacement class, but generally it is not something that is useful to application client code.

* @param keyDerivationKey A key used as an input to a key derivation function to derive other keys. This is the key that generally is created using some key generation mechanism such as `generateSecretKey(String, int)`. The "input" key from which the other keys are derived.
* The derived key will have the same algorithm type as this key.
* @param keySize The cipher's key size (in bits) for the `keyDerivationKey`.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* @param purpose The purpose for the derived key. Must be either the string "encryption" or "authenticity". Use "encryption" for creating a derived key to use for confidentiality, and "authenticity" for a derived key to use with a MAC to ensure message authenticity.
* @return The derived `SecretKey` to be used according to the specified purpose. Note that this serves the same purpose as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The `keyDerivationKey` has an unsupported encryption algorithm or no current JCE provider supports "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then this is thrown with the original `UnsupportedEncodingException` as the cause. (NOTE: This should never happen as "UTF-8" is supposed to be a common encoding supported by all Java implementations. Support for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @param Use `KeyDerivationFunction` instead. This method will be removed as of ESAPI release 2.3 so if you are using this, please change your code.
*/
/**
* Return true if specified cipher mode is one of those specified in the
* `ESAPI.properties` file that supports both confidentiality
and authenticity (i.e., a "combined cipher mode" as NIST refers to it).

* @param cipherMode The specified cipher mode to be used for the encryption
  or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
  of cipher modes supporting both confidentiality and authenticity;
  otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes() */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
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* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
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 * @created 2008
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 *
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// Because attribute values may be confidential, we don't want to log them!

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  jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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  jar/org/owasp/esapi/codecs/AbstractPushbackSequence.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/codecs/PushbackSequence.java
1.2310 jetty-deploy 9.4.11.v20180605

1.2311 javax-ws-rs-api 2.0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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.

All model parameters are passed to the XSLT Transformer as parameters.
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to be passed to the Transformer.

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* /opt/cola/permits/1135907478_1613628463.65/0/spring-webmvc-5-2-9-release-sources-1-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.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.

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.

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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jar/org/springframework/web/servlet/resource/VersionStrategy.java
* /opt/cola/permits/1135907478_1613628463.65/0/spring-webmvc-5-2-9-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
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* /opt/cola/permits/1135907478_1613628463.65/0/spring-webmvc-5-2-9-release-sources-1-
jar/org/springframework/web/servlet/NoHandlerFoundException.java
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* /opt/cola/permits/1135907478_1613628463.65/0/spring-webmvc-5-2-9-release-sources-1-
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1.2329 native-lib-loader 2.0.2

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* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/MxSysInfo.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/BaseJniExtractor.java
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* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/WebappJniExtractor.java

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1.2335 aether-spi 1.0.2.v20150114

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1.2338 shadow-utils 4.6-5.0.1.el7

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1.2341 jna-platform 4.1.0

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Written by: Philip Hazel
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* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/InvalidClientIDException.java
* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/TransactionInProgressException.java
* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/support/destination/DestinationResolver.java
* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/remoting/JmsInvokerClientInterceptor.java
* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/connection/SmartConnectionFactory.java
* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/MessageEOFException.java
* /opt/cola/permits/1152476651_1618244858.04/0/spring-jms-3-0-5-release-sources-1-jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
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* /opt/ws_local/PERMITS_SQL/1070610855_1594724965.35/0/spring-security-web-4.0.2-release-sources-2.jar/org/springframework/security/web/csrf/HttpSessionCsrfTokenRepository.java
* /opt/ws_local/PERMITS_SQL/1070610855_1594724965.35/0/spring-security-web-4.0.2-release-sources-2.jar/org/springframework/security/web/session/SessionFixationProtectionEvent.java
* /opt/ws_local/PERMITS_SQL/1070610855_1594724965.35/0/spring-security-web-4.0.2-release-sources-2.jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
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* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/support/ExpressionPointcut.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/support/InstantiationModelAwarePointcutAdvisor.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/support/AspectJMethodBeforeAdvice.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/support/AspectJPrecedenceInformation.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/target/CommonsPoolTargetSource.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /opt/cola/permits/1143552220_1615694901.51/0/spring-aop-3-2-8-release-sources-2-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
1.2353 brltty 4.5 16.el7

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1.2359 woodstox-core-asl 4.4.1

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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/OutputElementBase.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/SimpleOutputElement.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/BijectiveNsMap.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/NsDefaultProvider.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/TypedStreamReader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/BufferingXmlWriter.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/ReaderBootstrapper.java
* /opt/coli/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/ISOLatinReader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/XmlWriterWrapper.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/WstxInputSource.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/XmlWriterWrapper.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/DTDSchemaFactory.java
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jar/com/ctc/wstx/sw/RepairingNsStreamWriter.java
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jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/sw/BaseNsStreamWriter.java

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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.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:
User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                   rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.

The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software.

(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

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:

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C-Cube Microsystems, Inc.
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Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.
ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPPLUS 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 PBMPPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.
A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2363 vecmath 1.3.1

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1.2364 commons-dbcp 2.1.1

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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@end enumerate

@end example

@end example

@end example

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1.2370 batik-util 1.7

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1.2371 perl-pathtools 3.40-5.el7

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Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.
use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({
    Title   => 'Bad Taste',
    Director => 'Peter Jackson',
    Rating   => 'R',
    NumExplodingSheep => 1
});

ok( defined($btaste) and ref $btaste eq 'Film',     'new() works' );

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
    # Failed test (t/film.t at line 14)
ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0  SS$_NORMAL    all tests successful
4  SS$_ABORT     something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES
Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back

=head1 AUTHORS
Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

=head1 BUGS and CAVEATS

=over 4

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded. This is ok:
use threads;
use Test::More;

This may cause problems:

use Test::More
use threads;

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward
<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

<Test::Harness> for details on how your test results are interpreted by Perl.

<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

<Test::Class> is like XUnit but more perlish.

<Test::Deep> gives you more powerful complex data structure testing.

<Test::Unit> is XUnit style testing.

<Test::Inline> shows the idea of embedded testing.

(Bundle::Test) installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern <schwern@pobox.com> with much inspiration from Joshua Pritikin’s Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic and the perl-qa gang.

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=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Builder
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0    all tests successful
255  test died
any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002 by chromatic E<lt>chromatic@wgz.orgE<gt>,
Michael G Schwern E<lt>schwern@pobox.comE<gt>.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant
All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

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it under the same terms as Perl itself.

=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/cola/permits/1152388452_1618227152.59/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
r4lpIb3b/PathTools-3.40.tar.gz-cosi-expand-archive-KYrtdL3m/PathTools-3.40/lib/File/Spec/Functions.pm
No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.015005.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

ppport.h - Perl/Pollution/Portability version 3.20

perl ppport.h [options] [source files]

Skip
Searches current directory for files if no [source files] are given

--help show short help
--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=file

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges
Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpn> function, use:

    perl ppport.h --api-info=newSVpn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.
BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L</Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.20;

my %opt = (
  quiet  => 0,
  diag   => 1,
  hints  => 1,
  changes => 1,
  cplusplus => 0,
  filter  => 1,
  strip   => 0,
  version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[
\n])'; # line feed
my $HS = ' [\t\s]'; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*/';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {

usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: '$opt{compat-version}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{compat-version}\n" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{compat-version} = 5;
}

my %API = map { /^\w+\|[^|]*\|[^|]*\|[^|]*$/? ( $1 => {
        ($2 ? ( base => $2 ) : ()),
        ($3 ? ( todo => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    } ) : die "invalid spec: $_" } qw(AvFILLp|5.004050||p AvFILL|| BhkDISABLE|5.014000| BhkENABLE|5.014000| BhkENTRY_set|5.014000| BhkENTRY|| BhkFLAGS|| CALL_BLOCK_HOOKS|| CLASS||n CPERLscope|5.005000||p CX_CURPAD_SAVE|| CX_CURPAD_SV|| CopFILEAV|5.006000||p CopFILEGV_set|5.006000||p
<table>
<thead>
<tr>
<th>Function</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD_COMPNAME_GEN_set</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAD_COMPNAME_GEN</td>
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<td></td>
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<tr>
<td>PAD_COMPNAME_OURSTASH</td>
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<tr>
<td>PAD_COMPNAME_PV</td>
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<tr>
<td>PAD_COMPNAME_TYPE</td>
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<td>PAD_DUP</td>
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</tr>
<tr>
<td>PAD_RESTORE_LOCAL</td>
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<tr>
<td>PAD_SAVE_LOCAL</td>
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<tr>
<td>PAD_SAVE_SETNULLPAD</td>
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<tr>
<td>PAD_SETSV</td>
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<td></td>
</tr>
<tr>
<td>PAD_SET_CUR_NOSAVE</td>
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<tr>
<td>PAD_SET_CUR</td>
<td></td>
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<tr>
<td>PAD_SV</td>
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<td>PERL_ABS</td>
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<td>PERL_BCDVERSION</td>
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<td>5.008001</td>
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<td>PERL_MAGIC_arylen</td>
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<td>PERL_MAGIC_isa</td>
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<tr>
<td>PERL_MAGIC_mutex</td>
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<td>PERL_MAGIC_nkeys</td>
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<td>PERL_MAGIC_overload_elem</td>
<td>5.007002</td>
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<td>PERL_MAGIC_regdata</td>
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<td>PERL_MAGIC_regdatum</td>
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<tr>
<td>PERL_MAGIC_regex_global</td>
<td>5.007002</td>
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</table>
PERL_LONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
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PERL_USHORT_MAX|5.004000||p
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PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
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PL_bufend|5.014000||p
PL_bufptr|5.014000||p
PL_compiling|5.004050||p
PL_copline|5.014000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.014000||p
PL_expect|5.014000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
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PL_in_my|5.014000||p
PL_keyword_plugin|5.011002|
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.014000||p
PL_lex_stuff|5.014000||p
PL_linestr|5.014000||p
PL_modglobal|5.005000||p
PL_na|5.004050||p
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook|5.011000||n
PL_parser|5.009005|5.009005|p
PL_peep|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp|5.013005||n
PL_rsfp_filters|5.014000||p
PL_rsfp|5.014000||p
PL_rs||n
PL_signals|5.008000||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.014000||p
POP_MULTICALL|5.014000|
POPi||n
POPl||n
POPn||n
POPPbytex|5.007000||n
POPPx|5.005030||n
POPPp||n
POPs||n
PTR2IV|5.006000||p
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);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ".(40-length($f)), "\n", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;
    $code =~ s{
        / (?: \*[^*]*\*+(?:\[^$ccs\]\[^*]*\*+)* / | \[^

        | '[^'\]*(?:\.[^'\]*)*' }{}egsx;
    grep { exists $API{$_} } $code =~ /\w+/mg;
}
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace

= $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};

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$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
my @deps = map { s/\s+//g; $_ } split /,/, $3;
my $d;
for $d (map { s/\s+//g; $_ } split /,/, $1) {
push @{$depends{$d}}, @deps;
}
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}
if (exists $opt{'api-info'}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base.\n";
$info++;
}
if ($API{$f}{provided}) {
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo.\n";
print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
print "\n$hints{$f}" if exists $hints{$f};
print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\n";
exit 0;

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if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . '] : ";
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "$_ is not a file.\n" }
        } else {
            my @new = grep { -f } glob $_
                or warn "$_ does not exist.\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    } else {
    }
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$i
            and push @files, $File::Find::name;
        }, '.');
    };
    if ($@) {
        @files = map { glob "*$_" } @srcext;
    }
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

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$file{com} = @e_com;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\^[SHS]*\^[SHS]*include[^\r\n]+\b$ppport\b/m;

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "\$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    }
    if (exists $API{$func}{provided}) {
        $file{uses_provided}{$func}++;
        if (exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
            $file{uses}{$func}++;
            my @deps = rec_depend($func);
            if (@deps) {
                $file{uses_deps}{$func} = @deps;
                for (@deps) {
                    $file{uses}{'$_'} = 0 unless exists $file{uses}{'$_'};
                }
            }
            for ($func, @deps) {
                $file{needs}{'$_'} = 'static' if exists $need{$_};
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
            if ($c =~ /$func\b/) {
                $file{uses_todo}{$func}++;
            }
        }
    }
}

while ($c =~ /\^[SHS]*\^[SHS]*define\^[SHS]+\(NEED_(\w+?)(_GLOBAL)?\)\b/mg) {
    if (exists $need{$_}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warn("Possibly wrong \#define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

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$files{$filename} = $%file;

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
  if (@{$global{needs}{$need}} > 1) {
    my @targets = @{$global{needs}{$need}};
    my $target = shift @targets;
    $files{$target}{needs}{$need} = 'global';
    for (@{$global{needs}{$need}}) {
      if ($_ ne $target) {
        $files{$_}{needs}{$need} = 'extern';
      }
    }
  }
}

for $filename (@files) {
  exists $files{$filename} or next;

  info("=== Analyzing $filename ===");

  my %file = %{$files{$filename}};
  my $func;
  my $c = $file{code};
  my $warnings = 0;

  for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func}{varargs}) {
      unless ($API{$func}{nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\$\([^\$]*\)\([^\$]*\)\([^\$]*\)\([^\$]*\)^\([^\$]*\)}}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  } else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\$\([^\$]*\)\([^\$]*\)\([^\$]*\)\([^\$]*\)^\([^\$]*\)}}{$func$1(}g);
  }
}
for $func (sort keys %{$file{uses_replace}}) {  
  warning("Uses $func instead of $replace{$func}");  
  $file{changes} += ($c =~ s/$func/$replace{$func}/g);  
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
         format_version($API{$func}{todo}), ", even with "$ppport\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  } elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\.*$LF//mg);
  }
}
elsif ($file{needs}{$func} eq 'static') {
$message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}

if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*\$HS*define\$HS+NEED_${func}_GLOBAL\b.*\$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "\n"

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global'? '_GLOBAL': "");
        unless (exists $file{needed_$type}{$func}) {
            if ($type eq 'global') {
                diag("Files @ @{$global{needs}{$func}} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n"
        }
    } if ($pp && ($c =~ s/^(?=$HS*\$HS*define\$HS+NEED_\w+)/$pp/m)) {
        $pp = "\n"
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/\^\$HS*\$HS*define\$HS+NEED_\w+.*/\$1$pp/m)
            || ($c =~ s/\^\?$HS*\$HS*include.*\Q$ppport\E$/\$pp/m)
            || ($c =~ s/\^\$HS*\$HS*include.*XSUB.*\s*/\$1$pp/m)
            || ($c =~ s/\^/$pp/);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport"; 
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for ($ix = 0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$six$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$six$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : "
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : "
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } else {
        local *F;
        if (open F, ">$newfile") {
            info("Writing copy of '$filename' with changes to '$newfile'");
            print F $c;
            close F;
        } else {
            error("Cannot open '$newfile' for writing: $!");
        }
    }
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;
    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
}
if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, \$str, [ STYLE => 'Unified' ]);  
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
    }

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "">
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, "$prog $file $tmp") {
        print F $str;
        close F;
    }

    if (open F, "$prog $file $tmp") {
        while (<F>) {
            s/Q$diff\E/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }
}
unlink $tmp;
}
else {
    error("Cannot open 'Stmp' for writing: $!");
}

return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = %{ $seen%{ }; 
    return () if $seen->{ $func }++;
    my %s;
    grep !$s{ $_ }++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.\d+\.\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ \d+\d+\d[\d\_]+\d$) {
        die "cannot parse version '$ver'
    }

    $ver =~ s/_//g;
    $ver =~ s/\d+\d\d\d\d\d\d\d/000000/;
    my($r, $v, $s) = $ver =~ (/\d+/)(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'
        }
    }

    return ($r, $v, $s);
}
sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\(d\+(\d\{3\})\(d\{3\}\))/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver';"
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    %opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    %opt{quiet} and return;
    %opt{diag} and print @_, "\n";
}

sub warning
{
    %opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };

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\$@ and die "Cannot require Devel::PPPort, please install.\n"
if (eval \$Devel::PPPort::VERSION < \$VERSION) {
    die "\$0 was originally generated with Devel::PPPort \$VERSION.\n"
    "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
    "Please install a newer version, or --unstrip will not work.\n"
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

my($pl, $c) =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
    / (?::[^*]*\*+[?][^$ccs][^*]*\*+ / | /[^\r\n]*)
    | ( "[^\"\\]*(?:\\\.[^"\\]*)*" | '[^'\\]*(?:\\\.'[^'\\]*)*' )
    | (^\n)[?\:\[\^[^\n]*\>>()
    | (^[^\n]*\(?\:\[\^[^\n]*\])* )
    | ($HS+) }{ defined $2 ? $2 : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
print OUT "$pl$c\n"
exit 0;
}

__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.
---
abstract: unknown
author:
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  File::Basename: 0
  Scalar::Util: 0
  Test: 0
version: 3.40

Found in path(s):
  * /opt/cola/permits/1152388452_1618227152.59/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
    jr4IplTb/PathTools-3.40.tar.gz-cosi-expand-archive-KYrdL3m/PathTools-3.40/META.yml
No license file was found, but licenses were detected in source scan.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at

=cut

Found in path(s):
NAME

Test::Tutorial - A tutorial about writing really basic tests

DESCRIPTION

AHHHHHHHH!!!! NOT TESTING! Anything but testing!
Beat me, whip me, send me to Detroit, but don't make
me write tests!>

<sob>

Besides, I don't know how to write the damned things.>

Is this you? Is writing tests right up there with writing
documentation and having your fingernails pulled out? Did you open up
a test and read

######## We start with some black magic

and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for
you. And here are the tricks...

Nuts and bolts of testing.

Here's the most basic test program.

#!/usr/bin/perl -w

print "1..1\n";

print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";

since 1 + 1 is 2, it prints:

1..1
ok 1

What this says is: C<1..1> "I'm going to run one test." [1] C<ok 1>
"The first test passed". And that's about all magic there is to testing. Your basic unit of testing is the `ok()`. For each thing you test, an `ok()` is printed. Simple. `Test::Harness` interprets your test results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately, there's `Test::Simple`. It has one function, `ok()`.

```perl
#!/usr/bin/perl -w
use Test::Simple tests => 1;
ok( 1 + 1 == 2 );
```

and that does the same thing as the code above. `ok()` is the backbone of Perl testing, and we'll be using it instead of roll-your-own from here on. If `ok()` gets a true value, the test passes. False, it fails.

```perl
#!/usr/bin/perl -w
use Test::Simple tests => 2;
ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );
```

from that comes

```
1..2
 ok 1
 not ok 2
 #   Failed test (test.pl at line 5)
 # Looks like you failed 1 tests of 2.
```

`1..2` "I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. `ok 1` "The first test passed." `not ok 2" "The second test failed". `Test::Simple` helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, `Date::ICal`. It's on CPAN, so download a copy and follow along. [2]

=head2 Where to start?

This is the hardest part of testing, where do you start? People often
get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test C<new()>.

```perl
#!/usr/bin/perl -w
use Test::Simple tests => 2;
use Date::ICal;
my $ical = Date::ICal->new;    # create an object
ok( defined $ical );          # check that we got something
ok( $ical->isa('Date::ICal') );  # and it's the right class
```

run that and you should get:

```
1..2
ok 1
ok 2
```

congratulations, you've written your first useful test.

=head2 Names

That output isn't terribly descriptive, is it? When you have two tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second argument to C<ok()>.

```perl
use Test::Simple tests => 2;
ok( defined $ical,              'new() returned something' );
ok( $ical->isa('Date::ICal'),   "  and it's the right class" );
```

So now you'd see...

```
1..2
ok 1 - new() returned something
ok 2 -   and it's the right class
```

=head2 Test the manual

Simplest way to build up a decent testing suite is to just test what the manual says it does. [3] Let's pull something out of the
L<Date::ICal/SYNOPSIS> and test that all its bits work.

#!/usr/bin/perl -w

use Test::Simple tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
                      hour => 16, min => 12, sec => 47,
                      tz =>'0530' );

ok( defined $ical,            'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
ok( $ical->sec   == 47,       ' sec()'   );
ok( $ical->min   == 12,       ' min()'   );
ok( $ical->hour  == 16,       ' hour()'  );
ok( $ical->day   == 17,       ' day()'   );
ok( $ical->month == 10,       ' month()' );
ok( $ical->year  == 1964,     ' year()'  );

run that and you get:

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
# Failed test (- at line 16)
ok 7 - month()
ok 8 - year()
# Looks like you failed 1 tests of 8.

Whoops, a failure! [4] Test::Simple helpfully lets us know on what line
the failure occurred, but not much else. We were supposed to get 17,
but we didn't. What did we get?? Dunno. We'll have to re-run the
test in the debugger or throw in some print statements to find out.

Instead, we'll switch from B<Test::Simple> to B<Test::More>. B<Test::More>
does everything B<Test::Simple> does, and more! In fact, Test::More does
things I<exactly> the way Test::Simple does. You can literally swap
Test::Simple out and put Test::More in its place. That's just what
we're going to do.

Test::More does more than Test::Simple. The most important difference
at this point is it provides more informative ways to say "ok".
Although you can write almost any test with a generic C<ok()>, it can't tell you what went wrong. Instead, we'll use the C<is()> function, which lets us declare that something is supposed to be the same as something else:

```perl
#!/usr/bin/perl -w

use Test::More tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
                        hour => 16, min => 12, sec => 47,
                        tz => '0530' );

ok( defined $ical,            'new() returned something' );
ok( $ical->isa('Date::ICal'), "  and it's the right class" );
is( $ical->sec,     47,       '  sec()'   );
is( $ical->min,     12,       '  min()'   );
is( $ical->hour,    16,       '  hour()'  );
is( $ical->day,     17,       '  day()'   );
is( $ical->month,   10,       '  month()' );
is( $ical->year,    1964,     '  year()'  );

"Is C<$ical-E<gt>sec> 47?"  "Is C<$ical-E<gt>min> 12?"  With C<is()> in place, you get some more information

1..8
  ok 1 - new() returned something
  ok 2 -   and it's the right class
  ok 3 -   sec()
  ok 4 -   min()
  ok 5 -   hour()
  not ok 6 -  day()
  #   Failed test (- at line 16)
  #     got: '16'
  #     expected: '17'
  ok 7 -  month()
  ok 8 -  year()
  # Looks like you failed 1 tests of 8.

letting us know that C<$ical-E<gt>day> returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake when writing up the tests. Just change it to:

```perl
is( $ical->day,     16,       '  day()'   );
```

and everything works.
So any time you’re doing a "this equals that" sort of test, use \texttt{C<is()>}. It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

\texttt{is( @foo, 5, \text{\textquote{\textquotesingle}foo has 5 elements\textquotesingle});}

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use it as a cop out to avoid work.

=head2 Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970? After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

\texttt{use Test::More tests => 32; use Date::ICal;

my %ICal_Dates = ( # An IC\text{\textquote{al}} string And the year, month, date # hour, minute and second we expect. '19971024T120000' => # from the docs. [ 1997, 10, 24, 12, 0, 0 ], '20390123T232832' => # after the Unix epoch [ 2039, 1, 23, 23, 28, 32 ], '19671225T000000' => # before the Unix epoch [ 1967, 12, 25, 0, 0, 0 ], '18990505T232323' => # before the MacOS epoch [ 1899, 5, 5, 23, 23, 23 ];

while( my($ical_str, $expect) = each %ICal_Dates ) { my $ical = Date::ICal->new( ical => $ical_str );

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open source used in onprem 2.1 2.2 21690

ok( defined $ical, "new(ical => '$ical_str')" );
ok( $ical->isa('Date::ICal'), " and it's the right class" );

is( $ical->year, $expect->[0], ' year()' );
is( $ical->month, $expect->[1], ' month()' );
is( $ical->day, $expect->[2], ' day()' );
is( $ical->hour, $expect->[3], ' hour()' );
is( $ical->min, $expect->[4], ' min()' );
is( $ical->sec, $expect->[5], ' sec()' );
}

So now we can test bunches of dates by just adding them to
C<%ICal_Dates>. Now that it's less work to test with more dates, you'll
be inclined to just throw more in as you think of them.

Only problem is, every time we add to that we have to keep adjusting
the C<use Test::More tests =E<gt> ##> line. That can rapidly get
annoying. There's two ways to make this work better.

First, we can calculate the plan dynamically using the C<plan()> function.

use Test::More;
use Date::ICal;

my %ICal_Dates = (
  ...same as before...
);

# For each key in the hash we're running 8 tests.
plan tests => keys %ICal_Dates * 8;

Or to be even more flexible, we use C<no_plan>. This means we're just
running some tests, don't know how many. [6]

use Test::More 'no_plan'; # instead of tests => 32

now we can just add tests and not have to do all sorts of math to
figure out how many we're running.

=head2 Informative names

Take a look at this line here

ok( defined $ical, "new(ical => '$ical_str')" );

we've added more detail about what we're testing and the ICal string
itself we're trying out to the name. So you get results like:
if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.

=head2 Skipping tests

Poking around in the existing Date::ICal tests, I found this in F<test/sanity.t> [7]

#!/usr/bin/perl -w

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

# XXX This will only work on unix systems.
is( $t1->year, 1970, "year()" );
is( $t1->month, 1, "month()" );
is( $t1->day, 1, "day()" );

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
is( $t2->epoch, 0, "and back to ICal" );

The beginning of the epoch is different on most non-Unix operating systems [8]. Even though Perl smooths out the differences for the most part, certain ports do it differently. MacPerl is one off the top of
my head. [9] We know this will never work on MacOS. So rather than just putting a comment in the test, we can explicitly say it's never going to work and skip the test.

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

SKIP: {
    skip('epoch to ICal not working on MacOS', 6)
        if $^O eq 'MacOS';

    is( $t1->ical, '19700101Z', "  epoch to ical" );
    is( $t1->year, 1970, "  year()" );
    is( $t1->month, 1, "  month()" );
    is( $t1->day, 1, "  day()" );

    # like the tests above, but starting with ical instead of epoch
    my $t2 = Date::ICal->new( ical => '19700101Z' );
    is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
    is( $t2->epoch, 0, "  and back to ICal" );
}

A little bit of magic happens here. When running on anything but MacOS, all the tests run normally. But when on MacOS, C<skip()> causes the entire contents of the SKIP block to be jumped over. It's never run. Instead, it prints special output that tells Test::Harness that the tests have been skipped.

1..7
ok 1 - Epoch time of 0
ok 2 # skip epoch to ICal not working on MacOS
ok 3 # skip epoch to ICal not working on MacOS
ok 4 # skip epoch to ICal not working on MacOS
ok 5 # skip epoch to ICal not working on MacOS
ok 6 # skip epoch to ICal not working on MacOS
ok 7 # skip epoch to ICal not working on MacOS

This means your tests won't fail on MacOS. This means less emails from MacPerl users telling you about failing tests that you know will never work. You've got to be careful with skip tests. These are for tests which don't work and I<never will>. It is not for skipping genuine bugs (we'll get to that in a moment).
The tests are wholly and completely skipped. [10] This will work.

```perl
SKIP: {
    skip("I don't wanna die!");
    die, die, die, die, die;
}
```

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

```perl
ical

$ical_string = $ical->ical;

Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmm, didn't see a test for using C<ical()> to set the date in the Date::ICal test suite. So I'll write one.
```

```perl
use Test::More tests => 1;
use Date::ICal;

my $ical = Date::ICal->new;
$ical->ical('20201231Z');
is( $ical->ical, '20201231Z', 'Setting via ical()' );
```

run that and I get

```
1..1
not ok 1 - Setting via ical()
#   Failed test (- at line 6)
#       got: '20010814T233649Z'
#   expected: '20201231Z'
# Looks like you failed 1 tests of 1.
```

Whoops! Looks like it's unimplemented. Let's assume we don't have the time to fix this. [11] Normally, you'd just comment out the test and put a note in a todo list somewhere. Instead, we're going to explicitly state "this test will fail" by wrapping it in a C<TODO> block.

```perl
use Test::More tests => 1;

TODO: {
```
local $TODO = 'ical($ical) not yet implemented';

my $ical = Date::ICal->new;
$ical->ical('20201231Z');

is( $ical->ical, '20201231Z', 'Setting via ical()');
}

Now when you run, it's a little different:

1..1
not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented
  #      got: '20010822T201551Z'
  #    expected: '20201231Z'

Test::More doesn't say "Looks like you failed 1 tests of 1". That '#
TODO' tells Test::Harness "this is supposed to fail" and it treats a
failure as a successful test. So you can write tests even before
you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY
SUCCEEDED". When that happens, you simply remove the TODO block with
C<local $TODO> and turn it into a real test.

=head2 Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global
features. Once you turn it on, it affects I<all> code in your program
and I<all> modules used (and all the modules they use). If a single
piece of code isn't taint clean, the whole thing explodes. With that
in mind, it's very important to ensure your module works under taint
mode.

It's very simple to have your tests run under taint mode. Just throw
a C<-T> into the C<#!> line. Test::Harness will read the switches
in C<#!> and use them to run your tests.

#!/usr/bin/perl -Tw

...test normally here...

So when you say C<make test> it will be run with taint mode and
warnings on.

=head1 FOOTNOTES
The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

You can actually take this one step further and test the manual itself. Have a look at B<Test::Inline> (formerly B<Pod::Tests>).

Yes, there's a mistake in the test suite. What! Me, contrived?

We'll get to testing the contents of lists later.

But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem. Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.

I cleaned it up a little.

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.

MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.
As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

=back

=head1 AUTHORS

Michael G Schwern <lt>schwern@pobox.com<gt> and the perl-qa dancers!

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cut

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=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);
=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

my $cwd = getcwd();

Returns the current working directory.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to ‘pwd’ (but without the trailing line terminator).

=item fastcwd

my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed."
unexpectedly". That should never happen.

=item fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();
my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=over 4

=item abs_path

my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components (".", and ".") are resolved to return the canonical pathname, just like realpath(3).

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);
A more dangerous, but potentially faster version of abs_path.

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

    use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that
it will only be kept up to date if all packages which use chdir import
it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems ('/'
on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec
modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS,
calls `pwd`. Likewise, the C<abs_path()> function is an alias for
C<fast_abs_path()>.

=back

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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=head1 SEE ALSO

L<File::chdir>

=cut

Found in path(s):
* /opt/cola/permits/1152388452_1618227152.59/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive- jr4lpITb/PathTools-3.40.tar.gz-cosi-expand-archive-KYrtdL3m/PathTools-3.40/Cwd.pm
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=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas Kö<ouml;nig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath
X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

    $cpath = File::Spec->canonpath( $path ) ;

Note that this does *not* collapse F<x/../y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)
$path = File::Spec->catdir( @directories );

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

    $path = File::Spec->catfile( @directories, $filename );

=item curdir
X<curdir>

Returns a string representation of the current directory.

    $curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

    $devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

    $rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}> (unless taint is on) and F</tmp>.

    $tmpdir = File::Spec->tmpdir();

=item updir
X<updir>

Returns a string representation of the parent directory.
Given a list of file names, strip out those that refer to a parent directory. (Does not strip symlinks, only '.', '..', and equivalents.)

@paths = File::Spec->no_upwards( @paths );

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

$case_tolerant = File::Spec->case_tolerant();

Takes as its argument a path, and returns true if it is an absolute path.

$absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.

@PATH = File::Spec->path();

join is the same as catfile.

Splits a path into volume, directory, and filename portions. On systems with no concept of volume, returns "" for volume.

($volume,$directories,$file) = File::Spec->splitpath( $path );
($volume,$directories,$file) = File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F</> or F</..> is present. On Unix, this means that C<$no_file> true makes this return (", $path,").

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

@dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C<"">) can be returned, because these are significant on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C<$volume> is significant.

$full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

$rel_path = File::Spec->abs2rel( $path );
$rel_path = File::Spec->abs2rel( $path, $base );

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()>.

This means that it is taken to be relative to
On systems with the concept of volume, if \$path and \$base appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return \$path. Note that previous versions of this module ignored the volume of \$base, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the \$base filename as well. Otherwise all path components are assumed to be directories.

If \$path is relative, it is converted to absolute form using \$rel2abs(). This means that it is taken to be relative to \$cwd. On systems that have a grammar that indicates filenames, this ignores the \$base filename as well. Otherwise all path components are assumed to be directories.

If \$path is absolute, it is cleaned up and returned using \$canonpath.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

    $abs_path = File::Spec->rel2abs( $path ) ;
    $abs_path = File::Spec->rel2abs( $path, $base ) ;

If \$base is not present or ", then \$cwd is used. If \$base is relative, then it is converted to absolute form using \$rel2abs(). This means that it is taken to be relative to \$cwd.

On systems with the concept of volume, if \$path and \$base appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return \$path. Note that previous versions of this module ignored the volume of \$base, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the \$base filename as well. Otherwise all path components are assumed to be directories.

If \$path is absolute, it is cleaned up and returned using \$canonpath.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.
Based on code written by Shigio Yamaguchi.

For further information, please see L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>, L<ExtUtils::MakeMaker>

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OS/2 support by Ilya Zakharevich C<< <ilya@math.ohio-state.edu> >>.
Mac support by Paul Schinder C<< <schinder@pobox.com> >>, and
Thomas Wegner C<< <wegner_thomas@yahoo.com> >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com> >>,
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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=head1 NAME
File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

$ENV{'TMPDIR'}
$ENV{'TEMP'}
$ENV{'TMP'}
/tmp
/

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

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1.2372 libedit 3.0-12.20121213cvs.el7

1.2372.1 Available under license :

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1.2373 jetty-http 8.1.16.v20140903

1.2374 servicemixspecsjsr311api 1.2.0

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  jar/com/metaparadigm/jsonrpc/SetSerializer.java
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 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
 *
 * $Id: JSONRPCResult.java,v 1.8.2.1 2006/03/06 12:39:21 mclark Exp $
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 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
 *
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* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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jar/com/metaparadigm/jsonrpc/JSONRPCServlet.java
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/*
* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
*
* $Id: HttpSessionArgResolver.java,v 1.2.2.1 2006/03/06 12:39:21 mclark Exp $
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/*
* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
*
* $Id: UnmarshallException.java,v 1.3.2.1 2006/03/06 12:39:21 mclark Exp $
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/**
 * A JSONTokener takes a source string and extracts characters and tokens from
 * it. It is used by the JSONObject and JSONArray constructors to parse
 * JSON source strings.
 * <p>
 * Public Domain 2002 JSON.org
 * @author JSON.org
 * @version 0.1
 */

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/*
 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
 *
 * $Id: JSONRPCBridge.java,v 1.37.2.5 2006/03/27 05:39:21 mclark Exp $
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jar/com/metaparadigm/jsonrpc/JSONRPCBridge.java
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/*
* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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/*
 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
 * 
 * $Id: DictionarySerializer.java,v 1.5.2.2 2006/03/06 12:39:21 mclark Exp $
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/*
 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation

* $Id: MarshallException.java,v 1.3.2.1 2006/03/06 12:39:21 mclark Exp $
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/ *
* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
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  jar/com/metaparadigm/jsonrpc/ObjectMatch.java
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* JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
*
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/**
 * A JSONObject is an unordered collection of name/value pairs. Its
 * external form is a string wrapped in curly braces with colons between the
 * names and values, and commas between the values and names. The internal form
 * is an object having get() and opt() methods for accessing the values by name,
 * and put() methods for adding or replacing values by name. The values can be
 * any of these types: Boolean, JSONArray, JSONObject, Number, String, or the
 * JSONObject.NULL object.
 * <p>
 * The constructor can convert an external form string into an internal form
 * Java object. The toString() method creates an external form string.
 * <p>
 * A get() method returns a value if one can be found, and throws an exception
 * if one cannot be found. An opt() method returns a default value instead of
 * throwing an exception, and so is useful for obtaining optional values.
 * <p>
 * The generic get() and opt() methods return an object, which you can cast or
 * query for type. There are also typed get() and opt() methods that do typing
 * checking and type coercion for you.
 * <p>
 * The texts produced by the toString() methods are very strict.
 * The constructors are more forgiving in the texts they will accept.
 *<ul>
 * <li>An extra comma may appear just before the closing brace.</li>
 * <li>Strings may be quoted with single quotes.</li>
 * <li>Strings do not need to be quoted at all if they do not contain leading
 * or trailing spaces, and if they do not contain any of these characters:
 * { } [ ] : , .</li>
 * <li>Numbers may have the 0- (octal) or 0x- (hex) prefix.</li>
 * </ul>
 */

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@author JSON.org
@version 0.1
*/

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*/opt/cola/permits/1140604520_1614857465.64/0/json-rpc-1-0-sources-1-jar/com/metaparadigm/jsonrpc/InvocationCallback.java
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* $Id: NumberSerializer.java,v 1.4.2.2 2006/03/06 12:39:21 mclark Exp $
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/*
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* 
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A JSONArray is an ordered sequence of values. Its external form is a string
wrapped in square brackets with commas between the values. The internal form
is an object having get() and opt() methods for accessing the values by
index, and put() methods for adding or replacing values. The values can be
any of these types: Boolean, JSONArray, JSONObject, Number, String, or the
JSONObject.NULL object.

The constructor can convert a JSON external form string into an
internal form Java object. The toString() method creates an external
form string.

A get() method returns a value if one can be found, and throws an exception
if one cannot be found. An opt() method returns a default value instead of
throwing an exception, and so is useful for obtaining optional values.

The generic get() and opt() methods return an object which you can cast or
query for type. There are also typed get() and opt() methods that do typing
checking and coercion for you.

The texts produced by the toString() methods are very strict.
The constructors are more forgiving in the texts they will accept.

An extra comma may appear just before the closing bracket.
Strings may be quoted with single quotes.
Strings do not need to be quoted at all if they do not contain leading
or trailing spaces, and if they do not contain any of these characters:
{ } [ ] / : .
Numbers may have the 0- (octal) or 0x- (hex) prefix.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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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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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

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1.2385 libcap 1.10-7.el7
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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DRuntime: Runtime Library for the D Programming Language
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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 */
package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.CacheConfiguration;
import net.sf.ehcache.store.compound.ReadWriteCopyStrategy;

/**
 * Copies elements, either on read, write or both before using the underlying store to actually store things
 * When copying both ways, the store might not see the same types being stored
 * @param <T> the store type it wraps
 *
 * @author Alex Snaps
 */
public final class CopyingCacheStore<T extends Store> extends AbstractCopyingCacheStore<T> {

 /**
  * Creates a copying instance of store, that wraps the actual storage
  *
  * @param store the real store
  * @param copyOnRead whether to copy on reads
  * @param copyOnWrite whether to copy on writes
  * @param copyStrategyInstance the copy strategy to use on every copy operation
  */
/*
 * @param loader               classloader of the containing cache
 */
public CopyingCacheStore(T store, boolean copyOnRead, boolean copyOnWrite,
ReadWriteCopyStrategy<Element> copyStrategyInstance, ClassLoader loader) {
    super(store, copyOnRead, copyOnWrite, copyStrategyInstance, loader);
}

/**
 * Wraps the Store instance passed in, should any copy occur
 * @param cacheStore the store
 * @param cacheConfiguration the cache config for that store
 * @return the wrapped Store if copying is required, or the Store instance passed in
 */
public static Store wrapIfCopy(final Store cacheStore, final CacheConfiguration cacheConfiguration) {
    if (requiresCopy(cacheConfiguration)) {
        return wrap(cacheStore, cacheConfiguration);
    }
    return cacheStore;
}

/**
 * Wraps (always) with the proper configured CopyingCacheStore
 * @param cacheStore the store to wrap
 * @param cacheConfiguration the cache config backed by this store
 * @param <T> the Store type
 * @return the wrapped store
 */
private static <T extends Store> CopyingCacheStore<T> wrap(final T cacheStore, final CacheConfiguration
    cacheConfiguration) {
    final ReadWriteCopyStrategy<Element> copyStrategyInstance =
        cacheConfiguration.getCopyStrategyConfiguration()
        .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
    return new CopyingCacheStore<T>(cacheStore, cacheConfiguration.isCopyOnRead(),
                                    cacheConfiguration.isCopyOnWrite(), copyStrategyInstance, cacheConfiguration.getClassLoader());
}

/**
 * Checks whether configuration enables copying
 * @param cacheConfiguration the cache config
 * @return true is copying is required, otherwise false
 */
static boolean requiresCopy(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() || cacheConfiguration.isCopyOnWrite();
}

private static boolean isCopyOnReadAndCopyOnWrite(final CacheConfiguration cacheConfiguration) {
return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
}

/**
* Wraps the given {@link net.sf.ehcache.store.ElementValueComparator} if the configuration requires copy on read
* @param comparator the comparator to wrap
* @param cacheConfiguration the cache configuration
* @return the comparator passed if no copy needed, a wrapped comparator otherwise
*/
public static ElementValueComparator wrapIfCopy(final ElementValueComparator comparator, final CacheConfiguration cacheConfiguration) {
    if (isCopyOnReadAndCopyOnWrite(cacheConfiguration)) {
        final ReadWriteCopyStrategy<Element> copyStrategyInstance =
            cacheConfiguration.getCopyStrategyConfiguration()
                .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
        CopyStrategyHandler copyStrategyHandler = new CopyStrategyHandler(cacheConfiguration.isCopyOnRead(),
            cacheConfiguration.isCopyOnWrite(),
            copyStrategyInstance, cacheConfiguration.getClassLoader());
        return new CopyingElementValueComparator(comparator, copyStrategyHandler);
    }
    return comparator;
}

/**
* An {@link net.sf.ehcache.store.ElementValueComparator} which handles copy on read
*/
private static class CopyingElementValueComparator implements ElementValueComparator {

    private final ElementValueComparator delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public boolean equals(Element e1, Element e2) {
        return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
            copyStrategyHandler.copyElementForReadIfNeeded(e2));
    }
}

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package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.Searchable;

import java.util.Iterator;

/**
 * A {@link BruteForceSource} that wraps another one and deals with copy for read of {@link Element}s.
 *
 * @author ljacomet
 */
class CopyingBruteForceSource implements BruteForceSource {

    private final BruteForceSource delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    /**
     * Construct this CopyingBruteForceSource with the given delegate and the {@link CopyStrategyHandler} to use.
     *
     * @param delegate the delegate BruteForceSource
     * @param copyStrategyHandler the copy strategy handler
     */
    CopyingBruteForceSource(BruteForceSource delegate, CopyStrategyHandler copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public Iterable<Element> elements() {
        return new CopyingIterable(delegate.elements(), copyStrategyHandler);
    }
}
@Override
public Searchable getSearchable() {
    return delegate.getSearchable();
}

@Override
public Element transformForIndexing(Element element) {
    return copyStrategyHandler.copyElementForReadIfNeeded(element);
}

/**
 * Wrapping Iterable holding the delegate Iterable and the [link CopyStrategyHandler]
 */
private static class CopyingIterable implements Iterable<Element> {
    private final Iterable<Element> elements;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingIterable(Iterable<Element> elements, CopyStrategyHandler copyStrategyHandler) {
        this.elements = elements;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public Iterator<Element> iterator() {
        return new CopyingIterator(elements.iterator());
    }

    /**
     * Wrapping Iterator responsible of doing the copy on read
     */
    private class CopyingIterator implements Iterator<Element> {
        private final Iterator<Element> delegate;

        public CopyingIterator(Iterator<Element> delegate) {
            this.delegate = delegate;
        }

        @Override
        public boolean hasNext() {
            return delegate.hasNext();
        }

        @Override
        public Element next() {
            return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
        }
    }

    @Override
    public boolean hasNext() {
        return delegate.hasNext();
    }

    @Override
    public Element next() {
        return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
    }
}
@Override
public void remove() {
    delegate.remove();
}
}
}

1.2394 zlib 1.1.4

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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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2.1.6

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  jar/com/amazonaws/util/CredentialUtils.java
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Found in path(s):
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/util/AwsHostNameUtils.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/HandlerContextAware.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/http/IdleConnectionReaper.java

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* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java
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* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/transform/SimpleTypeIonUnmarshallers.java

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  jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/util/CapacityManager.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/http/timers/package-info.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/auth/CanHandleNullCredentials.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/util/IdempotentUtils.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/http/apache/client/impl/ApacheConnectionManagerFactory.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/http/apache/utils/ApacheUtils.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/internal/DateTimeJsonSerializer.java

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* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/protocol/json/internal/JsonProtocolMarshaller.java

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* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/internal/http/ErrorCodeParser.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/internal/http/IonErrorCodeParser.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
  jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java

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jar/com/amazonaws/util/MetadataCache.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/adapters/types/TypeAdapter.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/auth/NoOpSignerProvider.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/auth/SignerProviderContext.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/adapters/types/StringToInputStreamAdapter.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/util/NullResponseMetadataCache.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/internal/auth/SignerProvider.java

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jar/com/amazonaws/regions/ServiceAbbreviations.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-
jar/com/amazonaws/regions/Regions.java

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* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/util/ServiceClientHolderInputStream.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/auth/AWSSessionCredentials.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/metrics/MetricAdmin.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/util/ClassLoaderHelper.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1-jar/com/amazonaws/metrics/MetricAdminMBean.java

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* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1.jar/com/amazonaws/protocol/json/SdkIonGenerator.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1.jar/com/amazonaws/partitions/model/CredentialScope.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1.jar/com/amazonaws/regions/RegionImpl.java
* /opt/cola/permits/1137994016_1614192782.66/0/aws-java-sdk-core-1-11-277-sources-1.jar/com/amazonaws/auth/ServiceAwareSigner.java
/*
/**
 * Interface for providing AWS region information. Implementations are free to use any strategy for
 * providing region information.
 */

Found in path(s):
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jar/com/amazonaws/regions/AwsRegionProvider.java

1.2400 pylblzma 0.5.3 11.el7

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1.2402 idna 2.4

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import io, sys
from setuptools import setup

version = "2.4"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
```
'packages': ['idna'],
'version': version,
'description': 'Internationalized Domain Names in Applications (IDNA)',
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
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'url': 'https://github.com/kjd/idna',
'classifiers': [
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    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/setup.py
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/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/idna.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/PKG-INFO
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/python-idna.spec

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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* 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 3a0982da308228d796df35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.2422 api-ldap-extras-aci 1.0.0
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1.2423 spring-beans 4.3.30.RELEASE

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jar/org/springframework/beans/BeanInfoFactory.java
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jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /opt/cola/permits/1137268069_1614043211.45/0/spring-beans-4-3-30-release-sources-1-
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* /opt/cola/permits/1137268069_1614043211.45/0/spring-beans-4-3-30-release-sources-1-jar/org/springframework/beans/factory/access/el/SimpleSpringBeanELResolver.java
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```
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September 27, 2012

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* tcp_window_size.c
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Ty Coon, President of Vice

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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Found in path(s):
*/opt/cola/permits/1152321953_1618219225.51/0/dom4j-2-0-3-sources-jar/org/dom4j/io/SAXHelper.java
*/opt/cola/permits/1152321953_1618219225.51/0/dom4j-2-0-3-sources-jar/org/dom4j/io/SAXReader.java
*/opt/cola/permits/1152321953_1618219225.51/0/dom4j-2-0-3-sources-jar/org/dom4j/DocumentHelper.java

1.2448 jsr173-api 1.0

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* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
  jar/org/springframework/jms/connection/CachingConnectionFactory.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
  jar/org/springframework/jms/remoting/JmsInvokerClientInterceptor.java

1.2465 gmp 6.0.0-15.el7

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* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-
  jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceAndHibernateTransactionManager.j
  ava

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* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/InvalidNameException.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/transaction/compensating/UnbindOperationRecorder.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/pool/factory/PoolingContextSource.java
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* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/core/support/DefaultTlsDirContextAuthenticationStrategy.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/core/support/BaseLdapPathAware.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/TimeLimitExceededException.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/transaction/compensating/CompensatingTransactionOperationRecorder.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/core/DistinguishedName.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/core/LdapRdn.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-jar/org/springframework/ldap/TimeLimitExceededException.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4-
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* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4.jar/org/springframework/ldap/pool/factory/MutablePoolingContextSource.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4.jar/org/springframework/ldap/pool/MutableDelegatingLdapContext.java

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* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4.jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceAndDataSourceTransactionManager.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4.jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceTransactionManagerDelegate.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4.jar/org/springframework/ldap/transaction/compensating/manager/TransactionAwareDirContextInvocationHandler.java
* /opt/cola/permits/1150627629_1617622924.98/0/spring-ldap-1-3-0-release-sources-4.jar/org/springframework/ldap/transaction/compensating/manager/TransactionAwareContextSourceProxy.java

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yes

--
Alexandr Ciornii, http://chorny.net

1.2481 mesa-private-llvm 3.9.1 3.el7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !

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1.2487 commons-collections 3.1

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/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/

package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/

public class Version
{

/**
* Get the basic version string for the current Xalan release.
* Version String formatted like
* <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B>nn"</CODE>
* Futurework: have this read version info from jar manifest.
*
* @return String denoting our current version
*/

public static String getVersion()
{
    return getProduct() + "" + getImplementationLanguage() + "" + getMajorVersionNum() + "" + getReleaseVersionNum() + "" + (getDevelopmentVersionNum() > 0) ?
/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
* Release Number.
* Release number. This changes when:
* - a new set of functionality is to be added, eg,
*   implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* complete, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
    }
else
    return Integer.parseInt("@version.DEVELOPER@");
} catch (NumberFormatException nfe) {
    return 0;
}

}  

}  

}

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/Version.src

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 */

/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

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 */

/*
 * $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
 */
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * *
 * This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. */
 * @xsl.usage general
 */
public final class Version {

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.  
 *  
 * Futurework: have this read version info from jar manifest.  
 *  
 * @return String denoting our current version  
 */
public static String getVersion()
{
    return getProduct() + " " +getImplementationLanguage() + " "
        +getMajorVersionNum() + "." +getReleaseVersionNum() + "." 
        +((getDevelopmentVersionNum() > 0) ?
        ("D" +getDevelopmentVersionNum()) : ("" +getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

```java
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, e.g.,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a
* completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
* Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
*/

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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*/
/**
* Major version number.
* Version number. This changes only when there is a significant, externally apparent enhancement from
the previous release. 'n' represents the n'th version.

Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

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// Proprietary
/** The 'document-location()' id (Proprietary). */

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  jar/org/apache/xml/serializer/Encodings.properties
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  jar/org/apache/xml/serializer/XMLEntities.properties
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  jar/org/apache/xml/serializer/output_text.properties
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  jar/org/apache/xalan/res/XSLTInfo.properties
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  jar/org/apache/xml/serializer/output_xml.properties
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  jar/org/apache/xalan/xsltc/compiler/Makefile.inc
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  jar/org/apache/xml/serializer/output_unknown.properties
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  jar/org/apache/xml/serializer/HTMLEntities.properties
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  jar/org/apache/xml/serializer/output_html.properties
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*/

();?>

/**
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
/**
* Used by function calls with no args.
*/
static public final Vector EmptyArgs = new Vector(0);

/**
* Reference to non-existing variable.
*/
static public final VariableRef DummyVarRef = null;

/**
* Reference to the Parser class.
*/
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
  int nodeType;

  if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
      (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
  } else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
  } else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
      nodeType = (name.toString().equals("*") ? -1 :
        _xsltc.registerNamespacePrefix(name));
    } else {
      final String uri = name.getNamespace();
      final String local = name.getLocalPart();
      final QName namespace_uri =
        _parser.getQNameIgnoreDefaultNs("namespace-uri");
      // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
      if (uri != null && (local.equals("*") || local.equals("@*"))) {
        if (predicates == null) {
          predicates = new Vector(2);
        }
      }
    }

    // Priority is set by hand if no other predicates exist
  }

  return new StepPattern(axis, nodeType, predicates);
}

/*
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "[@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
setPriority = (predicates.size() == 0);

predicates.add(
    new Predicate(
        new EqualityExpr(Operators.EQ,
            new NamespaceUriCall(namespace_uri),
            new LiteralExpr(uri)));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
        _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}

public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
} else if (test instanceof Integer) {
    return ((Integer)test).intValue();
} else {
    QName name = (QName)test;
    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1 :
            _xsltc.registerNamespacePrefix(name);
    }
}

return result;
}
if (name.getNamespace() == null) {
    final String local = name.getLocalPart();

    if (local.equals("\*")) {
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : NodeTest.ELEMENT;
    } else if (local.equals("@\*")) {
        return NodeTest.ATTRIBUTE;
    }
    
    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
        : _xsltc.registerElement(name);
}

/**
* Parse the expression passed to the current scanner. If this
* expression contains references to local variables and it will be
* compiled in an external module (not in the main class) request
* the current template to create a new variable stack frame.
*
* @param lineNumber Line where the current expression is defined.
* @param external   Set to <tt>true</tt> if this expression is
*                   compiled in a separate module.
* *
* */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    } catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                     lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
        return null;
    }
}

/**
* Lookup a variable or parameter in the symbol table given its name.
* *
* @param name Name of the symbol being looked up.
* */
*/
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
    axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;
precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
  {: RESULT = pattern; :}

  | EXPRESSION Expr:expr
  {: RESULT = expr; :};

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
  {: RESULT = lpp; :}

  | LocationPathPattern:lpp VBAR Pattern:p
  {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
  {: RESULT = new AbsolutePathPattern(null); :}

  | SLASH RelativePathPattern:rpp
  {: RESULT = new AbsolutePathPattern(rpp); :}

  | IdKeyPattern:ikp
  {: RESULT = ikp; :}

  | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
  {: RESULT = new ParentPattern(ikp, rpp); :}

  | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
  {: RESULT = new AncestorPattern(ikp, rpp); :}

  | DSLASH RelativePathPattern:rpp
  {: RESULT = new AncestorPattern(rpp); :}

  | RelativePathPattern:rpp
  {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
  {: RESULT = new IdPattern(l); parser.setHasIdCall(true);}
KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{: RESULT = pip; // TODO: report error if axis is attribute
 :}
ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
{
    // TODO: report error if axis is attribute
    RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
};

NodeTestPattern ::= NameTestPattern:nt
{
    RESULT = nt; }

| NODE
{
    RESULT = new Integer(NodeTest.ANODE); }

| TEXT
{
    RESULT = new Integer(NodeTest.TEXT); }

| COMMENT
{
    RESULT = new Integer(NodeTest.COMMENT); }

| PI
{
    RESULT = new Integer(NodeTest.PI); }

NameTestPattern ::= STAR
{
    RESULT = null; }

| QName:qn
{
    RESULT = qn; }

ChildOrAttributeAxisSpecifier ::= ATSIGN
{
    RESULT = new Integer(Axis.ATTRIBUTE); }

| CHILD DCOLON
{
    RESULT = new Integer(Axis.CHILD); }

| ATTRIBUTE DCOLON
{
    RESULT = new Integer(Axis.ATTRIBUTE); }

Predicates ::= Predicate:p
{
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
}

| Predicate:p Predicates:pp
{
    pp.insertElementAt(p, 0); RESULT = pp; }
Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :};

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
{: RESULT = me; :}
AdditiveExpr::ae PLUS MultiplicativeExpr::me
{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

AdditiveExpr::ae MINUS MultiplicativeExpr::me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr::ue
{: RESULT = ue; :}

| MultiplicativeExpr::me MULT UnaryExpr::ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr::me DIV UnaryExpr::ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr::me MOD UnaryExpr::ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :}

UnaryExpr ::= UnionExpr::ue
{: RESULT = ue; :}

| MINUS UnaryExpr::ue
{: RESULT = new UnaryOpExpr(ue); :}

UnionExpr ::= PathExpr::pe
{: RESULT = pe; :}

| PathExpr::pe VBAR UnionExpr::rest
{: RESULT = new UnionPathExpr(pe, rest); :}

PathExpr ::= LocationPath::lp
{: RESULT = lp; :}

| FilterExpr::fexp
{: RESULT = fexp; :}

| FilterExpr::fexp SLASH RelativeLocationPath::rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{: // Expand '//' into '/descendant-or-self::node()' or
  // into /descendant-or-self::*/
  // int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&

Open Source Used In OnPrem2.1 2.2 22643
parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
    fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
:};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}
| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}
| RelativeLocationPath:rlp SLASH Step:step
{:;
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;       // Remove './' from the middle
    } else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;        // Remove '/.' from the end
    } else {
        RESULT =
        new ParentLocationPath((RelativeLocationPath) rlp, step);
    }

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}
| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step

final Step right = (Step)step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
  // Compress '/child:E' into 'descendant::E' - if possible
  if (predicates == null) {
    right.setAxis(Axis.DESCENDANT);
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
      RESULT = right;
    } else {
      // Expand 'rlp//child::E' into 'rlp/descendant::E'
      RelativeLocationPath left = (RelativeLocationPath)rlp;
      RESULT = new ParentLocationPath(left, right);
    }
  } else {
    // Expand '/step' into 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
      Step left = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
      RESULT = new ParentLocationPath(left, right);
    } else {
      // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
      RelativeLocationPath left = (RelativeLocationPath)rlp;
      Step mid = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
      ParentLocationPath ppl = new ParentLocationPath(mid, right);
      RESULT = new ParentLocationPath(left, ppl);
    }
  }
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
  // Expand 'rlp//step' into 'descendant-or-self::*/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
  // Expand 'rlp//step' into 'descendant-or-self::*/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
} else {
  // Expand 'rlp//step' into 'rlp/descendant-or-self::node()/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
}
Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
;

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{:
  // Expand '// into '/descendant-or-self::node()/'' or
  // into /descendant-or-self::*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
};

Step ::= NodeTest:ntest
{:
  if (ntest instanceof Step) {
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
  }
};

| NodeTest:ntest Predicates:pp
{:
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), pp);
  }
}
| AxisSpecifier:axis NodeTest:ntest Predicates:pp
| : RESULT = new Step(axis.intValue(),
| parser.findNodeType(axis.intValue(), ntest),
| pp);
| :}
| AxisSpecifier:axis NodeTest:ntest
| : RESULT = new Step(axis.intValue(),
| parser.findNodeType(axis.intValue(), ntest),
| null);
| :}

| AbbreviatedStep:abbrev
| : RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
| : RESULT = an; :}
| ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
| : RESULT = new Integer(Axis.ANCESTOR); :}
| ANCESTORORSELF
| : RESULT = new Integer(Axis.ANCESTORORSELF); :}
| ATTRIBUTE
| : RESULT = new Integer(Axis.ATTRIBUTE); :}
| CHILD
| : RESULT = new Integer(Axis.CHILD); :}
| DESCENDANT
| : RESULT = new Integer(Axis.DESCENDANT); :}
| DESCENDANTORSELF
| : RESULT = new Integer(Axis.DESCENDANTORSELF); :}
| FOLLOWING
| : RESULT = new Integer(Axis.FOLLOWING); :}
| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}
| NAMESPACE

|
AbbreviatedStep ::= DOT
    {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT
    {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
    {: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
    {: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
    {: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
    {: RESULT = ex; :}

| Literal:string
    {:

    /*
    * If the string appears to have the syntax of a QName, store
    * namespace info in the literal expression. This is used for
    * element-available and function-available functions, among
    * others. Also, the default namespace must be ignored.
    */
    String namespace = null;
    final int index = string.lastIndexOf(':');

    if (index > 0) {
        final String prefix = string.substring(0, index);
        namespace = parser._symbolTable.lookupNamespace(prefix);
    }
    RESULT = (namespace == null) ? new LiteralExpr(string)
: new LiteralExpr(string, namespace);
:

<table>
<thead>
<tr>
<th>INT:num</th>
</tr>
</thead>
<tbody>
<tr>
<td>long value = num.longValue();</td>
</tr>
<tr>
<td>if (value &lt; Integer.MIN_VALUE</td>
</tr>
<tr>
<td>RESULT = new RealExpr(value);</td>
</tr>
</tbody>
</table>
| }
| else { |
| if (num.doubleValue() == -0) |
| RESULT = new RealExpr(num.doubleValue()); |
| else if (num.intValue() == 0) |
| RESULT = new IntExpr(num.intValue()); |
| else if (num.doubleValue() == 0.0) |
| RESULT = new RealExpr(num.doubleValue()); |
| else |
| RESULT = new IntExpr(num.intValue()); |
| }
| }

<table>
<thead>
<tr>
<th>REAL:num</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new RealExpr(num.doubleValue()); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FunctionCall:fc</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = fc; :</td>
</tr>
</tbody>
</table>

VariableReference ::= DOLLAR VariableName:varName |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
</tr>
<tr>
<td>// An empty qname prefix for a variable or parameter reference</td>
</tr>
<tr>
<td>// should map to the null namespace and not the default URI.</td>
</tr>
<tr>
<td>SyntaxTreeNode node = parser.lookupName(varName);</td>
</tr>
<tr>
<td>if (node != null) {</td>
</tr>
<tr>
<td>if (node instanceof Variable) {</td>
</tr>
<tr>
<td>RESULT = new VariableRef((Variable)node);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (node instanceof Param) {</td>
</tr>
<tr>
<td>RESULT = new ParameterRef((Param)node);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else</td>
</tr>
<tr>
<td>RESULT = new UnresolvedRef(varName);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>if (node == null) {</td>
</tr>
<tr>
<td>RESULT = new UnresolvedRef(varName);</td>
</tr>
</tbody>
</table>
| }
FunctionCall ::= FunctionName:fname LPAREN RPAREN

if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
  RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
  RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
  RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
  RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
  RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
  RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
  RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
  RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
  RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
  RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
  RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
  RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
  RESULT = new NamespaceUriCall(fname);
}
else {
  RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new.StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") ||
        fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
);

NonemptyArgumentList ::= Argument:arg
 |
    : Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
    :
    |
    Argument:arg COMMA NonemptyArgumentList:argl
 |
    : argl.insertElementAt(arg, 0); RESULT = argl; :;
FunctionName ::= QName:fname
   {:
      RESULT = fname;
   :};

VariableName ::= QName:vname
   {:
      RESULT = vname;
   :};

Argument ::= Expr:ex
   {:
      RESULT = ex; :
   :};

NodeTest ::= NameTest:nt
   {:
      RESULT = nt; :
   }
   | NODE
      {:
         RESULT = new Integer(NodeTest.ANODE); :
      }
   | TEXT
      {:
         RESULT = new Integer(NodeTest.TEXT); :
      }
   | COMMENT
      {:
         RESULT = new Integer(NodeTest.COMMENT); :
      }
   | PIPARAM LPAREN Literal:l RPAREN
      {:
         QName name = parser.getQNameIgnoreDefaultNs("name");
         Expression exp = new EqualityExpr(Operators.EQ,
          new NameCall(name),
          new LiteralExpr(l));
         Vector predicates = new Vector();
         predicates.addElement(new Predicate(exp));
         RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
      :
   }
   | PI
      {:
         RESULT = new Integer(NodeTest.PI); :
      }
   | STAR
      {:
         RESULT = null; :
      }
   | QName:qn
      {:
         RESULT = qn; :
      }

QName ::= QNAME:qname
   {:
      RESULT = parser.getQNameIgnoreDefaultNs(qname); :
   }
| DIV |
| : RESULT = parser.getQNameIgnoreDefaultNs("div"); : |

| MOD |
| : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : |

| KEY |
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |

| DESCENDANTORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |

| FOLLOWING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following"); : |

| FOLLOWINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE |
| : RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT |
| : RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |

| PRECEDINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); : |

<p>| SELF |
| : RESULT = parser.getQNameIgnoreDefaultNs(&quot;self&quot;); : |</p>
<table>
<thead>
<tr>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;id&quot;); :</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup

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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 */
/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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 */
/*
*/
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof
%

    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :
        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }
// Return symbol if next token is ': ' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
       yy_buffer[index] == '(' ?
       newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/** *
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* name instead of a keyword (Jira-1912).
*/
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLSH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);  
}

/** *
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* wildcard instead of a multiplication operator
*/
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLSH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);  
}
case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
return newSymbol(sym.EOF);
%eofval}
%yylexthrow {
Letter={BaseChar}|{Ideographic}
Ideographic=[u0A8-U9FA5]
CombiningChar=[u0300-u0345͠-ͣ͡-ͦͰ-ͱͳ-Ͷ͸-͹ͻ-ͼ;-΀΂-΄Ά-·Ή-ΊΌ-ΐπ-ω]
"node()" { return newSymbol(sym.NODE); }
"node"+[ \t\n\f]+(" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[ \t\n\f]+(" { return newSymbol(sym.COMMENT); }
"processing-instruction()" { return disambiguateAxisOrFunction(sym.PI); }
"processing-instruction"+[ \t\n\f]+(" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
\\[^\\]*\\ { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("{Digit}+? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"." { return newSymbol(sym.DOT); }
("[NCName]":"[NCName] { return newSymbol(sym.QNAME, yytext()); }
("[NCName]":"["@" { return newSymbol(sym.QNAME, yytext()); }
("[NCName]":"@" { return newSymbol(sym.QNAME, yytext()); }
[ \t\n\f] /* ignore white space. */
.
  { throw new Exception(yytext()); }

Found in path(s):
  */
  /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.lex
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*/
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * See also: org/apache/xalan/res/XSLTInfo.properties</p>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

 /**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

 /**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

 /**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

*/

public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn]\"</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " " + VERSION + "." + RELEASE + " " + (DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) : ("" + MAINTENANCE));

}
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 */

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
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  jar/org/apache/xalan/transformer/QueuedEvents.java
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  */opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2.7.2-sources-jar/org/apache/xalan/templets/templates/ElemCopyOf.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.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
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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!

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@item

@end enumerate

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@end ifinfo

@page

@end appendixsubsec

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Ty Coon, President of Vice
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That's all there is to it!
(This file is under construction.)*- text -*.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m68034 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.2501 perl-threads-shared 1.43 6.el7

1.2502 icu 44
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##-*-makefile-*-##
# BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADS_CPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/(\$\n)\o.\[ :\]*/\1.o $@ : /g\" > $@; \ 
[-s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/(\$\n)\o.\[ :\]*/\1.o $@ : /g\" > $@; \ 
[-s $@ ] || rm -f $@’

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s {<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@
## End FreeBSD-specific setup

### 1.2503 libtiff 4.0.3-35.el7

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### 1.2504 quartz 1.6.0

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.
Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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Preamble

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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You 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:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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%define version SQLITE_VERSION
%define release 1

Name: %name
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %version
Release: %release
Source: %name-%version.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %_tmppath/%name-%version-root
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%package -n %name-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %name = %version-%release

%description -n % [name]-devel
The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%prep
%setup -q -n %name

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/* .so*
%{_bindir}/*

%files -n % [name]-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is in the public domain. This document describes what that means

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
#$Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
# do_test fts1c-1.1 {
CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensesxms.enron.com);:
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

http://expensesxms.enron.com');:
Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rl/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.

Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle. ');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', ' ', 'Here is a goody for you');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification:  (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website. ');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron ');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works. ');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO `email`(`from`, `to`, `subject`, `body`) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of')
which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
"Leila_Mankarious@mhs.org>, "'Marymankarious (E-mail)"
"mankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

')

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com','Urgent!!! --- New EAST books', 'This has to be done..................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.'
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave);

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
Thanks for your understanding in this matter.

T.Jae Black  
East Power Trading  
Assistant to Kevin Presto  
off. 713-853-5800  
fax 713-646-8272  
cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.
Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf');
Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
-------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc '):
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM ---------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com,
chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ---------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " -
*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn"
<lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum

Attached is Columbia Distribution’s notice of capacity available for release
for
Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', '  Enron Law Conference
San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,
I’ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey'}

ds
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Re: Tennessee Buy - Louis Dreyfus, 'Beverly - once again thanks so much for your help on this.
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Thank you contact me if you have any questions regarding last weeks prices.

Karolyn Criado
3-9441

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d.thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', ' 

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com','RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>
'):
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');
Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com;

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Reliant
Steve McGinn 713-207-4000

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week—I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15...talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP,' 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event—so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztztoolzprint.jpg');

COMMIT;
}
} {}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}
do_test fts1c-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
}

do_test fts1c-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
}
}

# Snippet generator tests
#
do_test fts1c-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
}

{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}

do_test fts1c-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}

{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}

do_test fts1c-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}

{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
Review Enron asset base for <b>potential</b> <b>reuse</b>/licensing
Contract negotiations <b>...<b>}}

do_test fts1c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/licensing
Contract negotiations}}

do_test fts1c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}

do_test fts1c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}

do_test fts1c-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
} {{Erin:
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}

do_test fts1c-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
}
} {{matt.smith@enron.com <b>...</b> six reports:
31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

public domain.</li>

Found in path(s):
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
No license file was found, but licenses were detected in source scan.

Sources are in the <a href="copyright.html">public domain</a>.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com', 'traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.
Please see example below:

Parent's Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction
Volume Hedged
1  - 24990
2500 - 54995000
5500 - 64996000

If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD

The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business
users?
-----Original Message-----
From: Koh, Wendy  
Sent: Tuesday, September 25, 2001 2:41 PM  
To: Bisbee, Joanne  
Subject: Bus Applications Meeting Follow Up  

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

-----Original Message-----
From: Fagan, Fran  
Sent: Thursday, December 20, 2001 11:10 AM  
To: McCarty, Danny  
Subject: worksheets  

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

-----Original Message-----
From: Bert Meyers  
Sent: Saturday, December 29, 2001 7:42 AM  
To: Shift.DL-Portland  
Subject: OCTOBER SCHEDULE  

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick -- Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
You bring your lunch. Limited Seating
We provide drinks and dessert. RSVP x 3-9610)

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

INSERT INTO email([from],[to],[subject],[body]) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '');
Here is a goody for you:

```
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.);
```

```
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.'
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'urgent!! -- new east books', 'This has to be done.................................
Thanks  
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON  
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA”s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----'

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

16:36 ---------------------------
Nailia Dindarova  
25/06/2001 15:36  
To: Michael Brown/Enron@EUEnronXGate  
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT  

Subject: Documents for Mark Frevert (on EU developments and lessons from California)  

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

'):

INSERT INTO email(from,to,subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
Thomas A Martin  
10/11/2000 03:55 PM  
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP  

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

Aaron Goddard@nisource.com on 03/08/2001 09:16:57 AM  
To: "        -         *Koch, Kent" <kkoch@nisource.com>, "        -         *Millar, Debra" <dmillar@nisource.com>, "        -         *Burke, Lynn" <lburke@nisource.com>  
cc: "        -         *Heckathorn, Tom" <theckathorn@nisource.com>  
Subject: Columbia Distribution”s Capacity Available for Release - Sum  


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.

Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,
Karim.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

I'll get it done today.

DG  3-9573
You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,','Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.
Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsdenna@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.  
PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', '.bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441
In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,
Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '"

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY''s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

---End of message---
----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,' , 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???, ','

----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending
To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?
-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

CoralJeff Whitnah 713-767-5374
RelaintSteve McGinn 713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
    Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
    TRANS_TYPE: FINAL
    LOAD_ID: PGE4
    MKT_TYPE: 2
    TRANS_DATE: 4/22/01
    SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:
Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.
*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');

COMMIT;

} {}
do_test fts3ac-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.
#

do_test fts3ac-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
    }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only 3 of them are paired with "product". Make sure only those instances that match the phrase appear in the offsets(email) list.
#

do_test fts3ac-3.1 {
    execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}

do_test fts3ac-3.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH "child product"
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b>e?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}
do_test fts3ac-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> asset base for <b>potential</b> <b>reuse</b>/ licensing
Contract negotiations<b>...</b>}}
do_test fts3ac-4.4 {
execsql {
SELECT snippet(email,<<,>>,') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<Deal>>> <<<Sheet>>> asset base for <<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts3ac-4.5 {
execsql {
SELECT snippet(email,<<,>>,') FROM email
WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {

---

Open Source Used In OnPrem2.1 2.2 22986
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}

{{ Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together

{ { pete.<b>davis</b>@enron.com<b>...;  No ancillary schedules awarded detected in Load schedule.

LOG

# Combinations of AND and OR operators:

#

do_test fts3ac-5.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'questar enron OR com'
    }
}

{ { matt.smith@<b>enron</b>.<b>com</b><b>...<b>31 Keystone Receipts
15 <b>Questar</b></b> Pipeline
40 Rockies<b>...<b>]]

do_test fts3ac-5.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'enron OR com questar'
    }
}

{ { matt.smith@<b>enron</b>.<b>com</b><b>...<b>31 Keystone Receipts
15 <b>Questar</b></b> Pipeline
40 Rockies<b>...<b>]]

#---------------------------------------------

# Test a problem reported on the mailing list.
do_test fts3ac-6.1 {
execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES("", 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
}

do_test fts3ac-6.2 {
execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
}

finish_test

SQLite core and like the SQLite core are in the public domain. The TH3 test harness is a set of proprietary tests, written in

application is free to use the same database connection or the
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
Ip0N72K3/sqlite-src-3071700.zip-cosi-expand-archive-6de8ba8h/sqlite-src-3071700/src/pager.c
No license file was found, but licenses were detected in source scan.

# 2010 July 16
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*******************************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

if capable !compound {
    finish_test
    return
}

do_execsql_test e_select-1.0 {
    CREATE TABLE t1(a, b);
    INSERT INTO t1 VALUES('a', 'one');
    INSERT INTO t1 VALUES('b', 'two');
    INSERT INTO t1 VALUES('c', 'three');

    CREATE TABLE t2(a, b);
    INSERT INTO t2 VALUES('a', 'I');
    INSERT INTO t2 VALUES('b', 'II');
    INSERT INTO t2 VALUES('c', 'III');

    CREATE TABLE t3(a, c);
    INSERT INTO t3 VALUES('a', 1);
INSERT INTO t3 VALUES('b', 2);

CREATE TABLE t4(a, c);
INSERT INTO t4 VALUES('a', NULL);
INSERT INTO t4 VALUES('b', 2);

set t1_cross_t2 [list
  a one   a I      a one   b II     
  a one   c III    b two   a I      
  b two   b II     b two   c III    
  c three a I    c three b II    
  c three c III  
]
set t1_cross_t1 [list
  a one   a one      a one   b two    
  a one   c three    b two   a one    
  b two   b two      b two   c three   
  c three a one    c three b two    
  c three c three  
]

# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",",",
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
#
#     * s/%JOIN%/,/
#     * s/%JOIN%/JOIN/
#     * s/%JOIN%/INNER JOIN/
#     * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
  foreach {tn2 joinop} [list 1 , 2 "CROSS JOIN" 3 "INNER JOIN"] {
    set S [string map [list %JOIN% $joinop] $select]
    uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
  }
}

#-------------------------------------------------------------------------
# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
do_join_test e_select-0.1.1 {
    SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} {3}
do_join_test e_select-0.1.2 {
    SELECT count(*) FROM t1 %JOIN% t2 USING (a)
} {3}
do_join_test e_select-0.1.3 {
    SELECT count(*) FROM t1 %JOIN% t2
} {9}
do_catchsql_test e_select-0.1.4 {
    SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 {cannot have both ON and USING clauses in the same join}}
do_catchsql_test e_select-0.1.5 {
    SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
# 0: SELECT ...
# 1: SELECT DISTINCT ...
# 2: SELECT ALL ...
#
# 0: No FROM clause
# 1: Has FROM clause
# 2: Has GROUP BY clause
# 3: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
    0000.1 "SELECT 1, 2, 3 " {1 2 3}
    1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
    2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

    0100.1 "SELECT a, b, a||b FROM t1 " {
        a one aone b two btwo c three cthree
    }
    1100.1 "SELECT DISTINCT a, b, a||b FROM t1 " {
        a one aone b two btwo c three cthree
    }
    1200.1 "SELECT ALL a, b, a||b FROM t1 " {
        a one aone b two btwo c three cthree
    }
0010.1  "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
0010.2  "SELECT 1, 2, 3 WHERE 0 " {}
0010.3  "SELECT 1, 2, 3 WHERE NULL " {}

1010.1  "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}
2010.1  "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

0101.1  "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
}
0101.2  "SELECT a, b, a||b FROM t1 WHERE a=='x'" {}

1101.1  "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
}
2101.0  "SELECT ALL a, b, a||b FROM t1 WHERE a=='x'" {}

0001.1  "SELECT 1, 2, 3 GROUP BY 2" {1 2 3}
0002.1  "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
0002.2  "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

1001.1  "SELECT DISTINCT 1, 2, 3 GROUP BY 2" {1 2 3}
1002.1  "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
1002.2  "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

2001.1  "SELECT ALL 1, 2, 3 GROUP BY 2" {1 2 3}
2002.1  "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
2002.2  "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

0101.1  "SELECT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
0101.2  "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
    1 a 1 c 1 b
}
0101.2  "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" {
}

1101.1  "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1101.2  "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
    1 a 1 c 1 b
}
1101.2  "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" {
}
2101.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
2101.2 "SELECT ALL count(*), max(a) FROM t1
GROUP BY b HAVING count(*)=1" {
  1 a 1 c 1 b
}
2102.1 "SELECT ALL count(*), max(a) FROM t1
GROUP BY b HAVING count(*)=2" {

}

0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0012.1 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" { }
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" { }

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}  
1012.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1"
    {1 2 3}
1012.2 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" { }

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" { }
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" { }

0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1 "SELECT count(*), max(a) FROM t1
WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}
0112.2 "SELECT count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2" { }
1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<'c' GROUP BY b"
    {1 a 1 b}
1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
GROUP BY b HAVING count(*)=1" {
  1 c 1 b
}
1112.2 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
GROUP BY b HAVING count(*)=2" { }

2111.1 "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"
    {1 c 1 b}
2112.1 "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
GROUP BY b HAVING count(*)=1" {
  1 a 1 c
}
2112.2 "SELECT ALL count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2" { }

do_select_tests e_select-0.3 {
  1  "SELECT * FROM t1" {a one b two c three}
  2  "SELECT t1.* FROM t1" {a one b two c three}
  3  "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
  4  "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
  5  "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

do_select_tests e_select-0.4 {
  1  "SELECT t1.rowid FROM t1" {1 2 3}
  2  "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
  3  "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3}
  4  "SELECT t1.rowid FROM t1" {1 2 3}
  5  "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
  6  "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
    {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3}
  7  "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
  8  "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
  9  "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
 10  "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
 11  "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}
 12  "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
 13  "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
 14  "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
 15  "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
 16  "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}
}

do_select_tests e_select-0.5 {
  1  "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
  2  "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
  3  "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
  4  "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
}

do_select_tests e_select-0.6 {
  1  "SELECT b||a FROM t1 ORDER BY b||a" {onea threec twob} 
  2  "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob} 
  3  "SELECT b||a FROM t1 ORDER BY (b||a) ASC" {onea threec twob} 
  4  "SELECT b||a FROM t1 ORDER BY (b||a) DESC" {twob threec onea} 
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
#

do_select_tests e_select-0.7 {
  1  "SELECT * FROM t1" {a one b two c three} 
  2  "SELECT * FROM t1 ORDER BY b" {a one c three b two} 
  3  "SELECT * FROM t1 ORDER BY b, a" {a one c three b two} 
  4  "SELECT * FROM t1 LIMIT 10" {a one b two c three} 
  5  "SELECT * FROM t1 LIMIT 10 OFFSET 5" {} 
  6  "SELECT * FROM t1 LIMIT 10, 5" {} 
  7  "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three} 
  8  "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {} 
  9  "SELECT * FROM t1 ORDER BY a, b LIMIT 10, 5" {} 
 10  "SELECT * FROM t1 UNION SELECT b, a FROM t1" 
      {a one b two c three one a three c two b} 
 11  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b" 
      {one a two b three c a one c three b two} 
 12  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a" 
      {one a two b three c a one c three b two} 
 13  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10" 
      {a one b two c three one a three c two b} 
 14  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5" 
      {} 
 15  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5" 
      {} 
 16  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10" 
      {a one b two c three one a three c two b} 
 17  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5" 
      {b two} 
 18  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a, b LIMIT 10, 5" 
      {} 
}

#-------------------------------------------------------------------------
# The following tests focus on FROM clause (join) processing. 
#

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple 
# SELECT statement, then the input data is implicitly a single row zero
do_select_tests e_select-1.1 {
  1 "SELECT 'abc'" {abc}
  2 "SELECT 'abc' WHERE NULL" {}
  3 "SELECT NULL" {}
  4 "SELECT count(*)" {1}
  5 "SELECT count(*) WHERE 0" [0]
  6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
# The results of the SELECT queries suggest that they are operating on the
# contents of the table 'xx'.
#
do_execsql_test e_select-1.2.0 {
  CREATE TABLE xx(x, y);
  INSERT INTO xx VALUES('IiJJsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
  INSERT INTO xx VALUES(NULL, -16.87);
  INSERT INTO xx VALUES(-17.89, 'linguistically');
} {}

do_select_tests e_select-1.2 {
  1 "SELECT quote(x), quote(y) FROM xx" {
      'IiJJsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
      NULL             -16.87
      -17.89           'linguistically'
  }
  2 "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
  3 "SELECT sum(x), sum(y) FROM xx" {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
  1 "SELECT * FROM t1, t2, t3" {
      a one a 1 a 1 a one a 1 b 2 a one b II a 1
# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (",") and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or "," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and "," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and "," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
# Since the output data is the same in all cases, we consider that this
# qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
CREATE TABLE x1(a, b);
CREATE TABLE x2(c, d, e);
CREATE TABLE x3(f, g, h, i);

-- x1: 3 rows, 2 columns
INSERT INTO x1 VALUES(24, 'converging');
INSERT INTO x1 VALUES(NULL, X'CB71');
INSERT INTO x1 VALUES('blonds', 'proprietary');

-- x2: 2 rows, 3 columns
INSERT INTO x2 VALUES(-60.06, NULL, NULL);
INSERT INTO x2 VALUES(-58, NULL, 1.21);

-- x3: 5 rows, 4 columns
INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
}

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product
# dataset are, in order, all the columns of the left-hand dataset
# followed by all the columns of the right-hand dataset.
#
do_join_test e_select-1.4.1.1 {
    SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} [-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
    SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat [-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
    SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat [-39.24 {} encompass -1] [-60.06 {} {}}]

do_join_test e_select-1.4.1.4 {
    SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat [-60.06 {} {}} [-39.24 {} encompass -1]]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
# dataset formed by combining each unique combination of a row from the
# left-hand and right-hand datasets.
#
do_join_test e_select-1.4.2.1 {
    SELECT * FROM x2 %JOIN% x3
} [list
    -60.06 {} {} -39.24 {} encompass -1 \ 
    -60.06 {} {} presenting 51 reformation dignified \ 
    -60.06 {} {} conducting -87.24 37.56 {} \ 
    -60.06 {} {} coldest -96 dramatists 82.3 \ 
    -60.06 {} {} alerting {} -93.79 {} \ 
    -58 {} 1.21 -39.24 {} encompass -1 \ 
    -58 {} 1.21 presenting 51 reformation dignified \ 
    -58 {} 1.21 conducting -87.24 37.56 {} \ 
    -58 {} 1.21 coldest -96 dramatists 82.3 \ 
    -58 {} 1.21 alerting {} -93.79 {}
]
# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs*Nrhs rows, each containing Mlhs+Mrhs columns.
#
# x1, x2   (Nlhs=3, Nrhs=2)  (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
   SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
   expr ([llength [execsql {SELECT * FROM x1, x2}]] / 6)
} [expr 2+3]

# x2, x3   (Nlhs=2, Nrhs=5)  (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
   SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
   expr ([llength [execsql {SELECT * FROM x2 JOIN x3}]]) / 10
} [expr 3+4]

# x3, x1   (Nlhs=5, Nrhs=3)  (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
   SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
   expr ([llength [execsql {SELECT * FROM x3 CROSS JOIN x1}]) / 15]
} [expr 4+2]

# x3, x3   (Nlhs=5, Nrhs=5)  (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
   SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
   expr ([llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]]) / 25]
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1

do_select_tests e_select-1.4.5 [list
   1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
   2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1
   3 { SELECT * FROM t1 INNER JOIN t2 } $t1_cross_t2
   4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1
]


If there is an ON clause specified, then the ON expression is evaluated for each row of the cartesian product as a boolean expression. All rows for which the expression evaluates to false are excluded from the dataset.

```
foreach {tn select res} [list
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) } $t1_cross_t2
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) } [list]
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) } [list]
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') } [list]
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') } $t1_cross_t2
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } $t1_cross_t2
  7 { SELECT * FROM t1 %JOIN% t2 ON ('0.9') } $t1_cross_t2
  8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) } [list]
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) } [one I two II three III]
 10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') } [one I one II one III]
 11 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } [two I two II two III three I three II three III]
] {
  do_join_test e_select-1.3.$tn $select $res
}
```

If there is a USING clause specified as part of the join-constraint, then each of the column names specified must exist in the datasets to both the left and right of the join-op.

```
do_select_tests e_select-1.4 -error {
  cannot join using column %s - column not present in both tables
} {
  1 { SELECT * FROM t1, t3 USING (b) } "b"
  2 { SELECT * FROM t3, t1 USING (c) } "c"
  3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) } "a"
}
```

For each pair of namesake columns, the expression "lhs.X = rhs.X" is evaluated for each row of the cartesian product as a boolean expression. All rows for which one or more of the expressions evaluates to false are excluded from the result set.

```
do_select_tests e_select-1.5 {
  1 { SELECT * FROM t1, t3 USING (a) } {a one 1 b two 2}
  2 { SELECT * FROM t3, t4 USING (a,c) } {b 2}
}
```
When comparing values as a result of a USING clause, the normal rules for handling affinities, collation sequences and NULL values in comparisons apply.

The column from the dataset on the left-hand side of the join operator is considered to be on the left-hand side of the comparison operator (=) for the purposes of collation sequence and affinity precedence.

For each pair of columns identified by a USING clause, the column from the right-hand dataset is omitted from the joined dataset. This is the only difference between a USING clause and its equivalent ON constraint.
3a { SELECT * FROM t3 %JOIN% t4 USING (a,c) } {b 2}
3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) } {b 2 b 2}

4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
%JOIN% t5 USING (a) }
{aa cc cc bb DD dd}
4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
%JOIN% t5 ON (x.a=t5.a) }
{aa cc AA cc bb DD BB dd}

} {
  do_join_test e_select-1.7.$tn $select $res
}

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT OUTER JOIN", then after the ON or USING filtering clauses have been applied, an extra row is added to the output for each row in the original left-hand input dataset that corresponds to no rows at all in the composite dataset (if any).
#
  do_execsql_test e_select-1.8.0 {
  CREATE TABLE t7(a, b, c);
  CREATE TABLE t8(a, d, e);

  INSERT INTO t7 VALUES('x', 'ex', 24);
  INSERT INTO t7 VALUES('y', 'why', 25);

  INSERT INTO t8 VALUES('x', 'abc', 24);
  INSERT INTO t8 VALUES('z', 'ghi', 26);
}{}

do_select_tests e_select-1.8 {
  1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
  1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
  2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
  2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the columns that would normally contain values copied from the right-hand input dataset.
#
  do_select_tests e_select-1.9 {
  1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" { x ex 24 x abc 24}
  1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
    { x ex 24 x abc 24 y why 25 } { } { } { }
  2a "SELECT * FROM t7 JOIN t8 USING (a)" { x ex 24 abc 24}
  2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" { x ex 24 abc 24 y why 25 } { } { }
# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of the join-ops, then an implicit USING clause is added to the join-constraints. The implicit USING clause contains each of the column names that appear in both the left and right-hand input datasets.

```sql
do_select_tests e_select-1-10 {
    1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
    1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}
    2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}
    2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24}
    3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {}}
    3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" {x ex 24 abc 24 y why 25 {} {}}
    4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" {x abc 24 ex 24 z ghi 26 {} {}}
    4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" {x abc 24 ex 24 z ghi 26 {} {}}
    5a "SELECT * FROM t3 JOIN t4 USING (a,c)" {b 2}
    5b "SELECT * FROM t3 NATURAL JOIN t4" {b 2}
    6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}
    6b "SELECT * FROM t3 NATURAL LEFT JOIN t4" {a 1 b 2}
}
```

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets feature no common column names, then the NATURAL keyword has no effect on the results of the join.

```sql
do_execsql_test e_select-1.11.0 {
    CREATE TABLE t10(x, y);
    INSERT INTO t10 VALUES(1, 'true');
    INSERT INTO t10 VALUES(0, 'false');
} {}
do_select_tests e_select-1-11 {
    1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
    1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
}
```

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a join that specifies the NATURAL keyword.

```sql
foreach {tn sql} {
    1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}
    2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}
}
```
3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}
} {
  do_catchsql_test e_select-1.12.$tn "
  $sql
  " {1 {a NATURAL join may not have an ON or USING clause}}
}

#---------------------------------------------------------------
# The next block of tests - e_select-3.* - concentrate on verifying
# statements made regarding WHERE clause processing.
#
# drop_all_tables
do_execsql_test e_select-3.0 {
  CREATE TABLE x1(k, x, y, z);
  INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
  INSERT INTO x1 VALUES(2, X'8E8D66F', X'07CF', -81);
  INSERT INTO x1 VALUES(3, -22, -27.57, NULL);
  INSERT INTO x1 VALUES(4, NULL, 'bygone', 'picky');
  INSERT INTO x1 VALUES(5, NULL, 96.28, NULL);
  INSERT INTO x1 VALUES(6, 0, 1, 2);

  CREATE TABLE x2(k, x, y2);
  INSERT INTO x2 VALUES(1, 50, X'B82838');
  INSERT INTO x2 VALUES(5, 84.79, 65.88);
  INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
  INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
} {}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.
#
# do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x } {3}
# do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y } {3 5 6}
# do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z } {1 2 6}
# do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1'||z } {1 2 4 6}
# do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
# do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}

# do_execsql_test e_select-3.2.1a {
#  SELECT k FROM x1 LEFT JOIN x2 USING(k)
#} {1 2 3 4 5 6}
# do_execsql_test e_select-3.2.1b {
#  SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
#} {1 3 5}
# do_execsql_test e_select-3.2.2 {
#  SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
do_execsql_test e_select-3.2.3 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}

do_execsql_test e_select-3.2.4 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
} {}

#-------------------------------------------------------------
# Tests below this point are focused on verifying the testable statements
# related to calculating the result rows of a simple SELECT statement.
#

drop_all_tables
do_execsql_test e_select-4.0 {
  CREATE TABLE z1(a, b, c);
  CREATE TABLE z2(d, e);
  CREATE TABLE z3(a, b);

  INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
  INSERT INTO z1 VALUES(-5, NULL, 75);
  INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
  INSERT INTO z1 VALUES(NULL, 67, 'quartets');
  INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
  INSERT INTO z1 VALUES(63, 'born', -26);

  INSERT INTO z2 VALUES(NULL, 21);
  INSERT INTO z2 VALUES(36, 6);

  INSERT INTO z3 VALUES('subsistence', 'gauze');
  INSERT INTO z3 VALUES(49.17, -67);
} {}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
  1 "SELECT * FROM z1 LIMIT 1"          {51.65 -59.58 belfries}
  2 "SELECT * FROM z1,z2 LIMIT 1"      {51.65 -59.58 belfries {} 21}
  3 "SELECT z1.* FROM z1,z2 LIMIT 1"    {51.65 -59.58 belfries}
  4 "SELECT z2.* FROM z1,z2 LIMIT 1"    {{} 21}
  5 "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}
6 "SELECT count(*), * FROM z1" [6 63 born -26]
7 "SELECT max(a), * FROM z1" [63 63 born -26]
8 "SELECT *, min(a) FROM z1" [-5 {} 75 -5]

9 "SELECT *, * FROM z1,z2 LIMIT 1" {
    51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21
}
10 "SELECT z1.*, z1.* FROM z2,z1 LIMIT 1" {
    51.65 -59.58 belfries 51.65 -59.58 belfries
}

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*" expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or "alias.*" expression in a simple SELECT query that does not have a
# "FROM" clause.
#
foreach {tn select err} {
    1.1 "SELECT a, b, c FROM z1 WHERE *" [near "*": syntax error]
    1.2 "SELECT a, b, c FROM z1 GROUP BY *" [near "*": syntax error]
    1.3 "SELECT 1 + * FROM z1" [near "+": syntax error]
    1.4 "SELECT * + 1 FROM z1" [near "+": syntax error]
    2.1 "SELECT *" [no tables specified]
    2.2 "SELECT * WHERE 1" [no tables specified]
    2.3 "SELECT * WHERE 0" [no tables specified]
    2.4 "SELECT count(*), *" [no tables specified]
} {
    do_catchsql_test e_select-4.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned
# by a simple SELECT statement is equal to the number of expressions in
# the result expression list after substitution of * and alias.*
#
foreach {tn select nCol} {
    1 "SELECT * FROM z1" 3
    2 "SELECT * FROM z1 NATURAL JOIN z3" 3
    3 "SELECT z1.*, FROM z1 NATURAL JOIN z3" 3
    4 "SELECT z3.*, FROM z1 NATURAL JOIN z3" 2
    5 "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3" 5
    6 "SELECT 1, 2, z1.* FROM z1" 5
    7 "SELECT a, *, b, c FROM z1" 6
}
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
sqlite3_finalize $::stmt
}

# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
1 "SELECT a, b FROM z1"
 {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born }

2 "SELECT a IS NULL, b+1, * FROM z1" {
 0 -58.58 51.65 -59.58 belfries
 0 {} -5 {} 75
 0 -22.18 -2.2 -23.18 suiters
 1 68 {} 67 quartets
 0 -31.3 -1.04 -32.3 aspen
 0 1 63 born -26
}

3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366}
}

# Test cases e_select-4.5.* and e_select-4.6.* together show that:
#
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created
# by evaluating the aggregate and non-aggregate expressions in the
# result-set forms the result of an aggregate query without a GROUP BY
# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate query without a GROUP BY clause, then each aggregate expression in the result-set is evaluated once across the entire dataset.

```
do_select_tests e_select-4.5 {
1  "SELECT count(a), max(a), count(b), max(b) FROM z1"      {5 63 5 born}
2  "SELECT count(*), max(1)"                                {1 1}
3  "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"           {-43.06}
4  "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"           {-38.06}
5  "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}
```

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the result-set is evaluated once for an arbitrarily selected row of the dataset.

# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used for each non-aggregate expression.

# Note: The results of many of the queries in this block of tests are technically undefined, as the documentation does not specify which row SQLite will arbitrarily select to use for the evaluation of the non-aggregate expressions.

```
drop_all_tables
do_execsql_test e_select-4.6.0 {
CREATE TABLE a1(one PRIMARY KEY, two);
INSERT INTO a1 VALUES(1, 1);
INSERT INTO a1 VALUES(2, 3);
INSERT INTO a1 VALUES(3, 6);
INSERT INTO a1 VALUES(4, 10);
CREATE TABLE a2(one PRIMARY KEY, three);
INSERT INTO a2 VALUES(1, 1);
INSERT INTO a2 VALUES(3, 2);
INSERT INTO a2 VALUES(6, 3);
INSERT INTO a2 VALUES(10, 4);
```

```
do_select_tests e_select-4.6 {
1  "SELECT one, two, count(*) FROM a1"                        {4 10 4}
2  "SELECT one, two, count(*) FROM a1 WHERE one<3"            {2 3 2}
3  "SELECT one, two, count(*) FROM a1 WHERE one>3"            {4 10 1}
4  "SELECT *, count(*) FROM a1 JOIN a2"                       {4 10 10 4 16}
5  "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
```
6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2" [3 6 2 3]
7 "SELECT group_concat(three, "), a1.* FROM a1 NATURAL JOIN a2" [12 3 6]
}

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
  1  "SELECT one, two, count(*) FROM a1 WHERE 0" {{} {} 0}
  2  "SELECT sum(two), * FROM a1, a2 WHERE three>5" {{} {} {} {} {}}
  3  "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" {
      1 1 1
  }
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
  8.1  "SELECT count(*) FROM a1"
  8.2  "SELECT count(*) FROM a1 WHERE 0"
  8.3  "SELECT count(*) FROM a1 WHERE 1"
  8.4  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
  8.5  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
} {
  # Set $nRow to the number of rows returned by $select:
  set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
  set nRow 0
  while {"SQLITE_ROW" == [sqlite3_step $::stmt]} { incr nRow }
  set rc [sqlite3_finalize $::stmt]
  # Test that $nRow==1 and that statement execution was successful
  # (rc==SQLITE_OK).
  do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables

do_execsql_test e_select-4.9.0 {
  CREATE TABLE b1(one PRIMARY KEY, two);
  INSERT INTO b1 VALUES(1, 'o');
  INSERT INTO b1 VALUES(4, 'f');
  INSERT INTO b1 VALUES(3, 't');
  INSERT INTO b1 VALUES(2, 't');
  INSERT INTO b1 VALUES(5, 'f');
  INSERT INTO b1 VALUES(7, 's');
  INSERT INTO b1 VALUES(6, 's');
CREATE TABLE b2(x, y);
INSERT INTO b2 VALUES(NULL, 0);
INSERT INTO b2 VALUES(NULL, 1);
INSERT INTO b2 VALUES('xyz', 2);
INSERT INTO b2 VALUES('abc', 3);
INSERT INTO b2 VALUES('xyz', 4);

CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
INSERT INTO b3 VALUES('abc', 'abc');
INSERT INTO b3 VALUES('aBC', 'aBC');
INSERT INTO b3 VALUES('Def', 'Def');
INSERT INTO b3 VALUES('def', 'def');
}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
#
# These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do
# not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
   1,2,3,4  10
} 
2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
   1,2,3,4  10   5,6,7 18
} 
3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
   4  1,5  2,6  3,7
} 
4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
   4,3,5,7,6  1,2
}
}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL
# values are considered equal.
#
do_select_tests e_select-4.10 {
1  "SELECT group_concat(y) FROM b2 GROUP BY x" {
   /3  /  3  /#
} 
2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {
   4  1
}

The usual rules for selecting a collation sequence with which to compare text values apply when evaluating expressions in a GROUP BY clause.

```
do_select_tests e_select-4.11 {
1  "SELECT count(*) FROM b3 GROUP BY b"   {1 1 1 1}
2  "SELECT count(*) FROM b3 GROUP BY a"   {2 2}
3  "SELECT count(*) FROM b3 GROUP BY +b"   {1 1 1 1}
4  "SELECT count(*) FROM b3 GROUP BY +a"   {2 2}
5  "SELECT count(*) FROM b3 GROUP BY b||"   {1 1 1 1}
6  "SELECT count(*) FROM b3 GROUP BY a||"   {1 1 1 1}
}
```

The expressions in a GROUP BY clause may not be aggregate expressions.

```
foreach {tn select} {
12.1  "SELECT * FROM b3 GROUP BY count(*)"
12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
12.3  "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
  set res [1 {aggregate functions are not allowed in the GROUP BY clause}]
  do_catchsql_test e_select-4.$tn $select $res
}
```

If a HAVING clause is specified, it is evaluated once for each group of rows as a boolean expression. If the result of evaluating the HAVING clause is false, the group is discarded.

```
# This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate expression, it is evaluated across all rows in the group.
#
# Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate expression, it is evaluated with respect to an arbitrarily selected row from the group.
#
# Tested by e_select-4.13.2.*
#
# Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
# even aggregate functions, that are not in the result.
#

do_execsql_test e_select-4.13.0 {
CREATE TABLE c1(up, down);
INSERT INTO c1 VALUES('x', 1);
INSERT INTO c1 VALUES('x', 2);
INSERT INTO c1 VALUES('x', 4);
INSERT INTO c1 VALUES('x', 8);
INSERT INTO c1 VALUES('y', 16);
INSERT INTO c1 VALUES('y', 32);

CREATE TABLE c2(i, j);
INSERT INTO c2 VALUES(1, 0);
INSERT INTO c2 VALUES(2, 1);
INSERT INTO c2 VALUES(3, 3);
INSERT INTO c2 VALUES(4, 6);
INSERT INTO c2 VALUES(5, 10);
INSERT INTO c2 VALUES(6, 15);
INSERT INTO c2 VALUES(7, 21);
INSERT INTO c2 VALUES(8, 28);
INSERT INTO c2 VALUES(9, 36);

CREATE TABLE c3(i PRIMARY KEY, k TEXT);
INSERT INTO c3 VALUES(1,  'hydrogen');
INSERT INTO c3 VALUES(2,  'helium');
INSERT INTO c3 VALUES(3,  'lithium');
INSERT INTO c3 VALUES(4,  'beryllium');
INSERT INTO c3 VALUES(5,  'boron');
INSERT INTO c3 VALUES(94, 'plutonium');
} {}

do_select_tests e_select-4.13 {
1.1  "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" [x]
1.2  "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" [y]
1.3  "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" [x]
1.4  "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" [x4]

2.1  "SELECT up FROM c1 GROUP BY up HAVING down>10" [y]
2.2  "SELECT up FROM c1 GROUP BY up HAVING up='y"' [y]

2.3  "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" [9 36]
}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
do_select_tests e_select-4.15 {
    1  "SELECT sum(down) FROM c1 GROUP BY up"  {15 48}
    2  "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)"  {54 36 27 19 39 28}
    3  "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)"  {80 36 40 21}
    4  "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)"  {81 37 41 22}
    5  "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"  {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.

# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.

# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.

# do_select_tests e_select-4.15 -count {
#  1  "SELECT i, j FROM c2 GROUP BY i%2"  {8 28 9 36}
#  2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30"  {8 28}
#  3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30"  {9 36}
#  4  "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
#       {2 5 boron   2 2 helium   1 3 lithium}
#}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.

# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.

# do_select_tests e_select.4.16 -count {
    1  "SELECT i, j FROM c2 GROUP BY i%2"  2
    2  "SELECT i, j FROM c2 GROUP BY i"  9
    3  "SELECT i, j FROM c2 GROUP BY i HAVING i<5"  4
}

#-------------------------------------------------------------------------
# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
# drop_all_tables
do_execsql_test e_select-5.1.0 {
    CREATE TABLE h1(a, b):
```
CREATE TABLE h1;
CREATE TABLE h2(x COLLATE nocase);
CREATE TABLE h3(c, d);

INSERT INTO h1 VALUES(1, 'one');
INSERT INTO h1 VALUES(1, 'I');
INSERT INTO h1 VALUES(1, 'i');
INSERT INTO h1 VALUES(4, 'four');
INSERT INTO h1 VALUES(4, 'IV');
INSERT INTO h1 VALUES(4, 'iv');

INSERT INTO h2 VALUES('One');
INSERT INTO h2 VALUES('Two');
INSERT INTO h2 VALUES('Three');
INSERT INTO h2 VALUES('Four');
INSERT INTO h2 VALUES('one');
INSERT INTO h2 VALUES('two');
INSERT INTO h2 VALUES('three');
INSERT INTO h2 VALUES('four');

INSERT INTO h3 VALUES(1, NULL);
INSERT INTO h3 VALUES(2, NULL);
INSERT INTO h3 VALUES(3, NULL);
INSERT INTO h3 VALUES(4, '2');
INSERT INTO h3 VALUES(5, NULL);
INSERT INTO h3 VALUES(6, '2,3');
INSERT INTO h3 VALUES(7, NULL);
INSERT INTO h3 VALUES(8, '2,4');
INSERT INTO h3 VALUES(9, '3');
```

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may follow the SELECT keyword in a simple SELECT statement.

```
do_select_tests e_select-5.1 {
  1   "SELECT ALL a FROM h1"      {1 1 1 4 4 4}
  2   "SELECT DISTINCT a FROM h1" {1 4}
} {}
```

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then the entire set of result rows are returned by the SELECT.

# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present, then the behavior is as if ALL were specified.

# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT, then duplicate rows are removed from the set of result rows before it is returned.

# The three testable statements above are tested by e_select-5.2.*,
do_select_tests e_select-5 {
    3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
    3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}
    3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
    3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}
    4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
    4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate rows, two NULL values are considered to be equal.

do_select_tests e_select-5.5 {
    1  "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation sequence to compare text values with apply.

do_select_tests e_select-5.6 {
    1  "SELECT DISTINCT b FROM h1"                  {one I i four IV iv}
    2  "SELECT DISTINCT b COLLATE nocase FROM h1"   {one I four IV}
    3  "SELECT DISTINCT x FROM h2"                  {One Two Three Four}
    4  "SELECT DISTINCT x COLLATE binary FROM h2"   {
        One Two Three Four one two three four
    }
}

# The following tests - e_select-7.* - test that statements made to do with compound SELECT statements are correct.

# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent SELECTs must return the same number of result columns.

# All the other tests in this section use compound SELECTs created using component SELECTs that do return the same number of columns.
# So the tests here just show that it is an error to attempt otherwise.

drop_all_tables

do_execsql_test e_select-7.1.0 {
    CREATE TABLE j1(a, b, c);
    CREATE TABLE j2(c, f);
CREATE TABLE j3(g);

do_select_tests e_select-7.1 -error {
SELECTs to the left and right of %s do not have the same number of result columns
}

1   "SELECT a, b FROM j1 UNION ALL SELECT g FROM j3"   {{UNION ALL}}
2   "SELECT * FROM j1 UNION ALL SELECT * FROM j3"   {{UNION ALL}}
3   "SELECT a, b FROM j1 UNION ALL SELECT g FROM j3"   {{UNION ALL}}
4   "SELECT a, b FROM j1 UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
5   "SELECT * FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}
6   "SELECT a, b FROM j1 UNION SELECT g FROM j3"        {UNION}
7   "SELECT * FROM j1 UNION SELECT * FROM j3"        {UNION}
8   "SELECT a, b FROM j1 UNION SELECT g FROM j3"        {UNION}
9   "SELECT a, b FROM j1 UNION SELECT * FROM j3,j2"     {UNION}
10  "SELECT * FROM j3,j2 UNION SELECT a, b FROM j1"     {UNION}
11  "SELECT a, b FROM j1 INTERSECT SELECT g FROM j3"    {INTERSECT}
12  "SELECT * FROM j1 INTERSECT SELECT * FROM j3"    {INTERSECT}
13  "SELECT a, b FROM j1 INTERSECT SELECT g FROM j3"    {INTERSECT}
14  "SELECT a, b FROM j1 INTERSECT SELECT * FROM j3,j2" {INTERSECT}
15  "SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}

16  "SELECT a, b FROM j1 EXCEPT SELECT g FROM j3"    {EXCEPT}
17  "SELECT * FROM j1 EXCEPT SELECT * FROM j3"    {EXCEPT}
18  "SELECT a, b FROM j1 EXCEPT SELECT g FROM j3"    {EXCEPT}
19  "SELECT a, b FROM j1 EXCEPT SELECT * FROM j3,j2" {EXCEPT}
20  "SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1" {EXCEPT}

# EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
# be simple SELECT statements, they may not contain ORDER BY or LIMIT
# clauses.
#
# foreach {tn select op1 op2} {
1   "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"  
    {ORDER BY} {UNION ALL}
2   "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2" 
    {ORDER BY} {UNION ALL}
3   "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2" 
    {ORDER BY} {UNION ALL}
4   "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3" 
    LIMIT {UNION ALL}
5   "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3" 
    LIMIT {UNION ALL}
6   "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3" 
    LIMIT {UNION ALL}
```
7 "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
   {ORDER BY} {UNION}
8 "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
   {ORDER BY} {UNION}
9 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"
   {ORDER BY} {UNION}
10 "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
11 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
12 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
    LIMIT {UNION}
13 "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
   {ORDER BY} {EXCEPT}
14 "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
   {ORDER BY} {EXCEPT}
15 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
   {ORDER BY} {EXCEPT}
16 "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
17 "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
18 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
    LIMIT {EXCEPT}
19 "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
   {ORDER BY} {INTERSECT}
20 "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
   {ORDER BY} {INTERSECT}
21 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
   {ORDER BY} {INTERSECT}
22 "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
    LIMIT {INTERSECT}
23 "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
    LIMIT {INTERSECT}
24 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
    LIMIT {INTERSECT}
}
```

```bash
} {
  set err "$op1 clause should come after $op2 not before"
  do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}
```

```
# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach [tn select] {
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
```
"SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"

"SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"

"SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"

"SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"

"SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"

"SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"

"SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"

"SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"

"SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"

"SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"

"SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"

"SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"

"SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"

"SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"

"SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"

"SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"

"SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

"SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"

"SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"

"SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"

"SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"

"SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"

"SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL operator returns all the rows from the SELECT to the left of the UNION ALL operator, and all the rows from the SELECT to the right of it.

drop_all_tables
do_execsql_test e_select-7.4.0 {
    CREATE TABLE q1(a TEXT, b INTEGER, c);
    CREATE TABLE q2(d NUMBER, e BLOB);
    CREATE TABLE q3(f REAL, g);

    INSERT INTO q1 VALUES(16, -87.66, NULL);
    INSERT INTO q1 VALUES('legible', 94, -42.47);
    INSERT INTO q1 VALUES('beauty', 36, NULL);

    INSERT INTO q2 VALUES('legible', 1);
    INSERT INTO q2 VALUES('beauty', 2);
    INSERT INTO q2 VALUES('-65.91', 4);
    INSERT INTO q2 VALUES('emanating', -16.56);
}
INSERT INTO q3 VALUES('beauty', 2);
INSERT INTO q3 VALUES('beauty', 2);
}
}
do_select_tests e_select-7.4 {
1  {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
   {16 legible beauty legible beauty -65.91 emanating}
2  {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
   {16 -87.66 { } x legible 1}
3  {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
   {3 -16.56}
4  {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
   {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as
# UNION ALL, except that duplicate rows are removed from the final
# result set.
#
do_select_tests e_select-7.5 {
1  {SELECT a FROM q1 UNION SELECT d FROM q2}
   {-65.91 16 beauty emanating legible}
2  {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
   {16 -87.66 { } x legible 1}
3  {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
   {-16.56 3}
4  {SELECT * FROM q2 UNION SELECT * FROM q3}
   {-65.91 4 beauty 2 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the
# intersection of the results of the left and right SELECTs.
#
do_select_tests e_select-7.6 {
1  {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
2  {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of
# rows returned by the left SELECT that are not also returned by the
# right-hand SELECT.
do_select_tests e_select-7.7 {
1 {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}

2 {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
   {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results
# of INTERSECT and EXCEPT operators before the result set is returned.
#
do_select_tests e_select-7.8 {
0 {SELECT * FROM q3} {beauty 2 beauty 2}

1 {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
2 {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1} {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate
# rows for the results of compound SELECT operators, NULL values are
# considered equal to other NULL values and distinct from all non-NULL
# values.
#
db nullvalue null

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
# text values is determined as if the columns of the left and right-hand

db nullvalue {}
# SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
# collation sequence specified with the postfix COLLATE operator.
#
# drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
    INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {
}
do_select_tests e_select-7.10 {
    1  {SELECT 'abc' UNION SELECT 'ABC'} {ABC abc}
    2  {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
    3  {SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase} {ABC}
    4  {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
    5  {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}
    6  {SELECT a FROM y1 UNION SELECT b FROM y1} {abc}
    7  {SELECT b FROM y1 UNION SELECT a FROM y1} {Abc abc}
    8  {SELECT a FROM y1 UNION SELECT c FROM y1} {aBC}
    9  {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
# any values when comparing rows as part of a compound SELECT.
#
# drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE w1(a TEXT, b NUMBER);
    CREATE TABLE w2(a, b TEXT);
    INSERT INTO w1 VALUES('1', 4.1);
    INSERT INTO w2 VALUES(1, 4.1);
} {
}
do_select_tests e_select-7.11 {
    1  { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
    2  { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
    3  { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
    4  { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}
    5  { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
    6  { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
    7  { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
    8  { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}
    9  { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
    10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
When three or more simple SELECTs are connected into a compound SELECT, they group from left to right. In other words, if "A", "B" and "C" are all simple SELECT statements, (A op B op C) is processed as ((A op B) op C).

# The INTERSECT and EXCEPT operations are mutually commutative. So the e_select-7.12.5 test cases do not prove very much.

drop_all_tables
do_execsql_test e_select-7.12.0 {
    CREATE TABLE t1(x);
    INSERT INTO t1 VALUES(1);
    INSERT INTO t1 VALUES(2);
    INSERT INTO t1 VALUES(3);
}
foreach {tn select res} {
    1a "(1,2) INTERSECT (1) UNION (3)" {1 3}
    1b "(3) UNION (1,2) INTERSECT (1)" {1}

    2a "(1,2) UNION (3) UNION ALL (1)" {1 2 3 1}
    2b "(1) UNION ALL (3) UNION (1,2)" {1 2 3}

    3a "(1,2) UNION (3) EXCEPT (1)" {2 3}
    3b "(1,2) EXCEPT (3) UNION (1)" {1 2}

    4a "(1,2) INTERSECT (1) UNION ALL (3)" {1 3}
    4b "(3) UNION (1,2) INTERSECT (1)" {1}

    5a "(1,2) INTERSECT (2) EXCEPT (2)" {}
    5b "(2,3) EXCEPT (2) INTERSECT (2)" {}

    6a "(2) UNION ALL (2) EXCEPT (2)" {}
    6b "(2) EXCEPT (2) UNION ALL (2)" {2}
7 "(2,3) EXCEPT (2) EXCEPT (3)" {} 
} 
set select {string map {{SELECT x FROM t1 WHERE x IN {}}} $select] 
do_execsql_test e_select-7.12.$tn $select [list {*}$res] 
}

#-------------------------------------------------------------------------
# ORDER BY clauses
#

drop_all_tables 
do_execsql_test e_select-8.1.0 
CREATE TABLE d1(x, y, z):

  INSERT INTO d1 VALUES(1, 2, 3); 
  INSERT INTO d1 VALUES(2, 5, -1); 
  INSERT INTO d1 VALUES(1, 2, 8); 
  INSERT INTO d1 VALUES(1, 2, 7); 
  INSERT INTO d1 VALUES(2, 4, 93); 
  INSERT INTO d1 VALUES(1, 2, -20); 
  INSERT INTO d1 VALUES(1, 4, 93); 
  INSERT INTO d1 VALUES(1, 5, -1);

CREATE TABLE d2(a, b):

  INSERT INTO d2 VALUES('gently', 'failings'); 
  INSERT INTO d2 VALUES('commercials', 'bathrobe'); 
  INSERT INTO d2 VALUES('iterate', 'sexton'); 
  INSERT INTO d2 VALUES('babied', 'charitableness'); 
  INSERT INTO d2 VALUES('solemnness', 'annexed'); 
  INSERT INTO d2 VALUES('rejoicing', 'liabilities'); 
  INSERT INTO d2 VALUES('pragmatist', 'guarded'); 
  INSERT INTO d2 VALUES('barked', 'interrupted'); 
  INSERT INTO d2 VALUES('reemphasizes', 'reply'); 
  INSERT INTO d2 VALUES('lad', 'relenting');
}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results 
# of evaluating the left-most expression in the ORDER BY list, then ties 
# are broken by evaluating the second left-most expression and so on. 
#
do_select_tests e_select-8.1 
  1 "SELECT * FROM d1 ORDER BY x, y, z" 
    1 2 -20 1 2 3 1 2 7 1 2 8 
    1 4 93 1 5 -1 2 4 93 2 5 -1 
  
} 

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# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
#
# Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows
# are sorted in ascending (smaller values first) order by default.
#
# Test cases e_select-8.3.* test the above. All 8.3 test cases are
# copies of 8.2 test cases with the explicit "ASC" removed.
#
do_select_tests e_select-8 {
  2.1 "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
    1 2 -20  1 2 3  1 2 7  1 2 8
    1 4  93  1 5 -1  2 4 93  2 5 -1
  }
  2.2 "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
    2 5 -1  2 4 93  1 5 -1  1 4  93
    1 2 8  1 2 7  1 2 3  1 2 -20
  }
  2.3 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
    2 4 93  2 5 -1  1 2 8  1 2 7
    1 2 3  1 2 -20  1 4  93  1 5 -1
  }
  2.4 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
    2 4 93  2 5 -1  1 2 -20  1 2 3
    1 2 7  1 2 8  1 4  93  1 5 -1
  }
  3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
    1 2 -20  1 2 3  1 2 7  1 2 8
    1 4  93  1 5 -1  2 4 93  2 5 -1
  }
  3.3 "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
    2 4 93  2 5 -1  1 2 8  1 2 7
    1 2 3  1 2 -20  1 4  93  1 5 -1
  }
  3.4 "SELECT * FROM d1 ORDER BY x DESC, y, z" {
    2 4 93  2 5 -1  1 2 -20  1 2 3
    1 2 7  1 2 8  1 4  93  1 5 -1
  }
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).
# do_select_tests e_select-8.4 {
1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
   12 -20  1 2 3  1 2 7  1 2 8
   1 4 93  1 5 -1  2 4 93  2 5 -1
}
2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
   2 5 -1  2 4 93  1 5 -1  1 4 93
   1 2 8  1 2 7  1 2 3  1 2 -20
}
3  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
   2 4 93  2 5 -1  1 2 8  1 2 7
   1 2 3  1 2 -20  1 4 93  1 5 -1
}
4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
   2 4 93  2 5 -1  1 2 -20  1 2 3
   1 2 7  1 2 8  1 4 93  1 5 -1
}
5  "SELECT * FROM d1 ORDER BY 1, 2, 3" {
   1 2 -20  1 2 3  1 2 7  1 2 8
   1 4 93  1 5 -1  2 4 93  2 5 -1
}
6  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
   2 4 93  2 5 -1  1 2 -20  1 2 3
   1 2 3  1 2 -20  1 4 93  1 5 -1
}
7  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
   2 4 93  2 5 -1  1 2 -20  1 2 3
   1 2 7  1 2 8  1 4 93  1 5 -1
}
8  "SELECT z, x FROM d1 ORDER BY 2" {
   /# 1 1 1 # 1 1 1
   # 1 # 1 # 2 # 2/
}
9  "SELECT z, x FROM d1 ORDER BY 1" {
   /-20 1 -1 1 # -1 1 # 3 1
   7 1 8 1 93 # 93 #/
}
}

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier
# that corresponds to the alias of one of the output columns, then the
# expression is considered an alias for that column.
#
# do_select_tests e_select-8.5 {
1  "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
   -19 0 0 4 8 9 94 94
}
2 "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
   94 94 9 8 4 0 0 -19
}
3 "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
   / # 1  # 1  # 1  # 1  # 1  # 1  # 2  # 2 /
}
4 "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
   / -20 1  -1 #  -1 #  3 1  8 1  93 #  93 # /
}

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is
# any other expression, it is evaluated and the returned value used to
# order the output rows.

# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT,
# then an ORDER BY may contain any arbitrary expressions.

# do_select_tests e_select-8.6 {
1   "SELECT * FROM d1 ORDER BY x+y+z" {
   1 2 -20  1 5 -1  1 2 3  2 5 -1
   1 2 7  1 2 8  1 4 93  2 4 93
}
2   "SELECT * FROM d1 ORDER BY x*z" {
   1 2 -20  2 5 -1  1 5 -1  1 2 3
   1 2 7  1 2 8  1 4 93  2 4 93
}
3   "SELECT * FROM d1 ORDER BY y*z" {
   1 2 -20  2 5 -1  1 5 -1  1 2 3
   1 2 7  1 2 8  2 4 93  1 4 93
}
}

# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.

# do_select_tests e_select-8.7.1 -error {
1   %s ORDER BY term does not match any column in the result set
}
2   "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" 1st
2   "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}

do_select_tests e_select-8.7.2 {
1   "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
   -20 -2 -1 3 7 8 93 186 babied barked commercials gently
iterate lad pragmatist reemphasizes rejoicing solemnness

2  "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {1 -1 1 0 1 0 1 0 1 0 1 0 2 -2 2 0}

babied charitableness barked interrupted commercials bathrobe gently
failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
rejoicing liabilities solemnness annexed

do_execsql_test e_select-8.8.0 {
CREATE TABLE d3(a);
INSERT INTO d3 VALUES('text');
INSERT INTO d3 VALUES(14.1);
INSERT INTO d3 VALUES(13);
INSERT INTO d3 VALUES(X'78787878');
INSERT INTO d3 VALUES(15);
INSERT INTO d3 VALUES(12.9);
INSERT INTO d3 VALUES(null);

CREATE TABLE d4(x COLLATE nocase);
INSERT INTO d4 VALUES('abc');
INSERT INTO d4 VALUES('ghi');
INSERT INTO d4 VALUES('DEF');
INSERT INTO d4 VALUES('JKL');
}

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
# The following tests verify that values of different types are sorted
# correctly, and that mixed real and integer values are compared properly.
#
do_execsql_test e_select-8.8.1 {
SELECT a FROM d3 ORDER BY a
} {{} 12.9 13 14.1 15 text xxxx}
do_execsql_test e_select-8.8.2 {
SELECT a FROM d3 ORDER BY a DESC
} {xxxx text 15 14.1 13 12.9 {}}

# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_execsql_test e_select-8.9.1 {
SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
# In the test 8.10.2, the only result-column expression has no alias. So the
# ORDER BY expression is not a reference to it and therefore does not inherit
# the collation sequence. In test 8.10.3, "x" is the alias (as well as the
# column name), so the ORDER BY expression is interpreted as an alias and the
# collation sequence attached to the result column is used for sorting.
#
# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#
# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#

do_execsql_test e_select-8.13.0 {
  CREATE TABLE d5(a, b);
  CREATE TABLE d6(c, d);
  CREATE TABLE d7(e, f);

  INSERT INTO d5 VALUES(1, 'f');
  INSERT INTO d6 VALUES(2, 'e');
  INSERT INTO d7 VALUES(3, 'd');
  INSERT INTO d5 VALUES(4, 'c');
  INSERT INTO d6 VALUES(5, 'b');
  INSERT INTO d7 VALUES(6, 'a');

  CREATE TABLE d8(x COLLATE nocase);
  CREATE TABLE d9(y COLLATE nocase);

  INSERT INTO d8 VALUES('a');
  INSERT INTO d9 VALUES('B');
  INSERT INTO d8 VALUES('c');
  INSERT INTO d9 VALUES('D');
}
}

do_select_tests e_select-8.13 {
  1   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
       ORDER BY a
     } {1 2 3 4 5 6}
  2   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
       ORDER BY c
     } {1 2 3 4 5 6}
  3   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
       ORDER BY e
     } {1 2 3 4 5 6}
  4   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
       ORDER BY 1
     } {1 2 3 4 5 6}
  5   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
     {f l c 4 4 c 1 f}
  6   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
     {f l c 4 4 c 1 f}
  7   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
     {1 f 4 c c 4 f l}
  8   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
     {1 f 4 c c 4 f l}
  9   { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
     {f 2 c 5 4 c 1 f}
10  { SELECT a, b FROM d5 UNION ALL SELECT a+1 FROM d5 ORDER BY 2 }
   { f 2 c 5 4 c 1 f }

11  { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
   { 2 f 5 c 5 f 2 }
12  { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 }
   { 2 f 5 c 5 f 2 }
}

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
  %s ORDER BY term does not match any column in the result set
}

1  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 }          1st
2  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 }       2nd
3  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' }  1st
4  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah }    1st
5  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d }  3rd
6  { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b }  4th
}

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
do_select_tests e_select-8.15 {
  1  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d } { 1 e 1 f 4 b 4 c }
  2  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b } { 1 e 1 f 4 b 4 c }
  3  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 } { 1 e 1 f 4 b 4 c }
}

#---------------------------------------------------------------
# Tests related to statements made about the LIMIT/OFFSET clause.
#
do_execsql_test e_select-9.0 {
  CREATE TABLE f1(a, b);
  INSERT INTO f1 VALUES(26, 'z');
  INSERT INTO f1 VALUES(25, 'y');
  INSERT INTO f1 VALUES(24, 'x');
  INSERT INTO f1 VALUES(23, 'w');
  INSERT INTO f1 VALUES(22, 'v');
  INSERT INTO f1 VALUES(21, 'u');
INSERT INTO f1 VALUES(20, 't');
INSERT INTO f1 VALUES(19, 's');
INSERT INTO f1 VALUES(18, 'r');
INSERT INTO f1 VALUES(17, 'q');
INSERT INTO f1 VALUES(16, 'p');
INSERT INTO f1 VALUES(15, 'o');
INSERT INTO f1 VALUES(14, 'n');
INSERT INTO f1 VALUES(13, 'm');
INSERT INTO f1 VALUES(12, 'l');
INSERT INTO f1 VALUES(11, 'k');
INSERT INTO f1 VALUES(10, 'j');
INSERT INTO f1 VALUES(9, 'i');
INSERT INTO f1 VALUES(8, 'h');
INSERT INTO f1 VALUES(7, 'g');
INSERT INTO f1 VALUES(6, 'f');
INSERT INTO f1 VALUES(5, 'e');
INSERT INTO f1 VALUES(4, 'd');
INSERT INTO f1 VALUES(3, 'c');
INSERT INTO f1 VALUES(2, 'b');
INSERT INTO f1 VALUES(1, 'a');
{}
{}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
# do_select_tests e_select-9.1 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') }   
    {a b c d e}
4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#
# do_select_tests e_select-9.2 -error "datatype mismatch" {
1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}
# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a negative value, then there is no upper bound on the number of rows returned.

do_select_tests e_select-9.4 {
1  { SELECT b FROM f1 ORDER BY a LIMIT -1 }
   {a b c d e f g h i j k l m n o p q r s t u v w x y z}
2  { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 }
   {a b c d e f g h i j k l m n o p q r s t u v w x y z}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 }
   {a b c d e f g h i j k l m n o p q r s t u v w x y z}
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N rows of its result set only, where N is the value that the LIMIT expression evaluates to.

do_select_tests e_select-9.5 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return less than N rows without a LIMIT clause, then the entire result set is returned.

do_select_tests e_select-9.6 {
1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5}
}

# EVIDENCE-OF: R-24188-24349 The expression attached to the optional OFFSET clause that may follow a LIMIT clause must also evaluate to an integer, or a value that can be losslessly converted to an integer.

foreach {tn select} {
1  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
2  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
3  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'X'ABC'D' }
4  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
5  { SELECT b FROM f1 ORDER BY a
        LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)
   }
   }
   do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}
If an expression has an OFFSET clause, then the first \( M \) rows are omitted from the result set returned by the SELECT statement and the next \( N \) rows are returned, where \( M \) and \( N \) are the values that the OFFSET and LIMIT clauses evaluate to, respectively.

```sql
do_select_tests e_select-9.8 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
3  { SELECT b FROM f1 ORDER BY a
    LIMIT (SELECT a FROM f1 WHERE b='j')
    OFFSET (SELECT a FROM f1 WHERE b='b')
} {c d e f g h i j k l}
4  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
5  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
6  { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
7  { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}
```

Or, if the SELECT would return less than \( M+N \) rows if it did not have a LIMIT clause, then the first \( M \) rows are skipped and the remaining rows (if any) are returned.

```sql
do_select_tests e_select-9.9 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}
```

If the OFFSET clause evaluates to a negative value, the results are the same as if it had evaluated to zero.

```sql
do_select_tests e_select-9.10 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}
```

Instead of a separate OFFSET clause, the LIMIT clause may specify two scalar expressions separated by a comma.

```sql
do_select_tests e_select-9.11 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1} {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500} {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0} {a b c d e}
}
```

Instead of a separate OFFSET clause, the LIMIT clause may specify two scalar expressions separated by a comma.

```sql
do_select_tests e_select-9.12 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1} {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500} {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0} {a b c d e}
}
```

In this case, the first expression is used as the OFFSET expression and the second as the LIMIT expression.

```sql
do_select_tests e_select-9.13 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1} {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500} {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0} {a b c d e}
}
```
1  { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
2  { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
3  { SELECT b FROM f1 ORDER BY a
      LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j')
      } {c d e f g h i j k l}
4  { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
5  { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
6  { SELECT b FROM f1 ORDER BY a LIMIT 10.0 } {}
7  { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}
8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}

10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  Ip0N72K3/sqlite-src-3071700.zip-cosi-expand-archive-6de8ba8h/sqlite-src-3071700/test/e_select.test
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>

But there also exist proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
# #
# #  May you do good and not evil.
# #  May you find forgiveness for yourself and forgive others.
# #  May you share freely, never taking more than you give.
# #
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.

# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.

set porter_test_data {
    a a
    aaron aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase abas
    abash abash
    abate abat
    abated abat
    abatement abat
    abatements abat
    abates abat
    abbess abbess
    abbey abbei
    abbeys abbei
    abominable abomin
    abbot abbot
    abbots abbot
    abbreviated abbrevi
    abed ab
    abel abel
    aberga aberga
    abergavenny abergavenni
}
abet
abetting
abominable
abhor
abhorred
abhorring
abhors
abhorson
abide
abides
abilities
ability
abject
abjectly
abouts
abode
aboded
abodements
aboding
abominable
abominably
abominations
abortive
abortives
abound
abounding
about
above
abroad
abroad
abrogate
abridge
abridged
abridgment
abroach
abroad
abrog
abrook
abrupt
abruption
Open Source Used In OnPrem2.1 2.2 23036
accommodate  accommod
accommodated  accommod
accommodation  accommod
accommodations  accommod
accommodo  accommodo
accompanied  accompani
accompany  accompani
accompanying  accompani
accomplices  accomptic
accomplish  accomplish
accomplished  accomplish
accomplishing  accomplish
accomplishment  accomplish
accompt  accompt
accord  accord
accordant  accord
accorded  accord
accordeth  accordeth
according  accord
accordingly  accordingli
accords  accord
accost  accost
accusted  accost
account  account
accountant  account
accounted  account
accounts  account
accoutred  accoutr
accoutrement  accoutr
accoutrements  accoutr
accrue  accru
accumulate  accumul
accumulated  accumul
accumulation  accumul
accurs  accru
accursed  accrurs
accurst  accurst
accus  accu
accusation  accus
accusations  accus
accusative  accus
accusativo  accusativo
accuse  accus
accused  accus
accuser  accus
accusers  accus
accuses  accus
accuseth  accuseth
actium  actium
active  activ
actively  activ
activity  activ
actor  actor
actors  actor
acts  act
actual  actual
acture  actur
acute  acut
acutely  acut
ad  ad
adage  adag
adallas  adalla
adam  adam
adamant  adam
add  add
added  ad
adder  adder
adders  adder
addeth  addeth
addict  addict
addicted  addict
addiction  addict
adding  ad
addition  addit
additions  addit
addle  addl
address  address
addressing  address
addrest  addrest
adds  add
adhere  adher
adheres  adher
adieu  adieu
adieus  adieu
adjacent  adjac
adjoin  adjoin
adjoining  adjoin
adjourn  adjourn
adjudg  adjudg
adjudged  adjudg
adjunct  adjunct
administer  administ
administration  administr
admir  admir
admirable  admir
admiral  admir
admiration  admir
admire    admir
admired   admir
admirer   admir
admiring   admir
admiringly admiringli
admission  admiss
admit     admit
admits    admit
admittance admiss
admitted  admit
admitting admit
admonish   admonish
admonishing admonish
admonishment admonish
admonishments admonish
admonition  admonit
ado       ado
adonis    adoni
adopt     adopt
adopted   adopt
adoptedly adoptedli
adoption  adopt
adoptious adopti
adopts    adopt
ador      ador
adoration ador
adorations ador
adore     ador
adorer    ador
adores    ador
adorest   adorest
adoreth   adoreth
adoring   ador
adorn      adorn
adorned   adorn
adornings adorn
adornment adorn
adornment adorn
adorns    adorn
adown     adown
adramadio adramadio
adrian    adrian
adriana   adriana
adriano   adriano
adriatic  adriat
adsum     adsum
adulation adul
adulterate adulter
adulterates adulter
adulterers adulter
adulteress adulteress
adulteries adulteri
adulterous adulter
adultery adulteri
adultress adulteress
advance advanc
advanced advanc
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advancements advanc
advances advanc
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advantageable advantag
advantaged advantag
advantageous advantag
advantages advantag
advantaging advantag
advent advent
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adventure adventur
adventures adventur
adventuring adventur
adventurous adventur
adventurously adventur
adversaries adversari
adversary adversari
adverse advers
adversely advers
adversities adver
adversity adver
advertis adverti
advertise advertis
advertised advertis
advertisement advertis
advertising advertis
advice advic
advis advi
advise advis
advised advis
advisedly advisedli
advises advis
advisings advis
advocate advoc
advocation advoc
aeacida aeacida
aeacides    aeacid
aedile      aedil
aediles     aedil
aegeon      aegeon
aegion      aegion
aegles      aegl
aemelia     aemelia
aemilia     aemilia
aemilius    aemiliu
aeneas      aenea
aeolus      aeolu
aer         aer
aerial      aerial
aery        aeri
aesculapius aesculapiu
aeson       aeson
aesop       aesop
aetna       aetna
afar        afar
afear       afear
afeard      afeard
affability  affabl
affable     affabl
affair      affair
affaire     affair
affairs     affair
affect      affect
affectation affect
affectations affect
affected    affect
affectedly  affectedli
affecteth   affecteth
affecting   affect
affection   affect
affectionate affection
affectionately affection
affections  affect
affects     affect
affeer      affeer
affianc     affianc
affiance    affianc
affianced   affianc
affied      affi
affin       affin
affined     affin
affinity    affin
affirm      affirm
affirmation affirm
al     al
alabaster  alabast
alack    alack
alacrity  alacr
alarbus   alarbu
alarm     alarm
alarms    alarm
alarum    alarum
alarums   alarum
alas      ala
alb       alb
alban     alban
albans    alban
albany    albani
albeit    albeit
albion    albion
alchemist alchemist
alchemy    alchemi
alcibiades alcibiad
alcides   alcid
alder     alder
alderman  alderman
aldermen  aldermen
ale       al
alecto    alecto
alehouse  alehous
alehouses alehous
alencon   alencon
alencon   alencon
aleppo    aleppo
ales      al
alewife   alewif
alexander alexand
alexanders alexand
alexandria alexandria
alexandrian alexandrian
alexis    alexa
alias     alia
alice     alic
alien     alien
alien     alien
alight    alight
alighted  alight
alights   alight
aliis     alii
alike     alik
alisander alisand
alive     aliv
all   all
alla  alla
allay allai
allayed allai
allaying allai
allayment allay
allayments allay
allays allai
allegation alleg
allegations alleg
allege alleg
alleged alleg
allegiance allegi
allegiant allegi
alley allei
alleys allei
allhallowmas allhallowma
alliance allianc
allicholy allicholi
allied alli
allies alli
alligant allig
alligator allig
allons allon
allot allot
allots allot
allotted allot
allottery allotteri
allow allow
allowance allow
allowed allow
allowing allow
allows allow
allur allur
allure allur
allurement allur
alluring allur
allusion allus
ally alli
allycholly allycholli
almain almain
almanac almanac
almanack almanack
almanacs almanac
almighty almighty
almond almond
almost almost
alms alm
amyntas  amynta
an  an
anatomiz  anatomiz
anatomy  anatom
ancestor  ancestor
ancestors  ancestor
ancestry  ancestri
anchises anchis
anchor anchor
anchorage anchorag
anchored anchor
anchoring anchor
anchors anchor
anchovies anchovi
ancient ancient
ancestry ancient
ancestors ancient
ancus ancu
and and
andirons andiron
andpholus andpholu
andren andren
andrew andrew
andromache andromach
andronicci andronicici
andronicus andronicu
anew anew
ang ang
angel angel
angelica angelica
angelical angel
angelo angelo
angels angel
anger anger
angerly angerli
angers anger
anges ang
angiers angier
angl angl
anglais anglai
angle angl
angler angler
angleterre angleterr
angliae anglia
angling angl
anglish anglish
angrily angrili
angry
anguish
angus
animal
animals
animis
anjou
ankle
anna
annals
anne
annex
annexed
annexions
annexment
annothanize
announces
annoy
annoyance
annoying
annual
anoint
anointed
anon
another
anselmo
answer
answerable
answered
answerest
answering
answers
ant
ante
antenor
antenorides
anteroom
anthem
anthems
anthony
anthropophagi
anthropophaginian
antic
anticipate
anticipates
anticipatest
anticipating
aqua      aqua
aquilon   aquilon
aquitaine aquitain
arabia    arabia
arabian   arabian
araise    arais
arbitrate arbitr
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wiser     wiser
wisest    wisest
wish      wish
wished    wish
wisher    wisher
wishers   wisher
wishes    wish
wisest    wisest
wisheth   wisheth
wishful   wish
wishing   wish
wishtly   wishtli
wisp      wisp
wist      wist
wit       wit
witb      witb
witch     witch
witchcraft witchcraft
witches   witch
witching  witch
with      with
withal    withal
withdraw  withdraw
withdrawing withdrawing
withdrawn withdrawn
withdrawn withdrawn
withdrew  withdrew
wither    wither
withered  wither
withering wither
withers   wither
withheld  withheld
withhold  withhold
withholds withhold
within    within
WITHOLD   withold
without   without
withstanding withstand
withstood  withstood
witless   witless
witness   wit
witnesses wit
witnesseth witnesseth
witnessing wit
wits      wit
witted    wit
wittenberg wittenberg
wittiest  wittiest
wittily  witti
wit  wit
wittingly  wittingli
wittol  wittol
wittolly  wittolli
witty  witti
wiv  wiv
wive  wive
wived  wive
wives  wive
wiving  wive
wizard  wizard
wizards  wizard
wo  wo
woe  woe
woeful  woeful
woeful  woeful
woefulst  woefullest
woes  woe
woful  woful
wolf  wolf
wolfish  wolfish
wolsey  wolsei
wolves  wolv
wolvish  wolvis
woman  woman
womanhood  womanhood
womanish  womanish
womankind  womankind
womanly  womanli
womb  womb
wombs  womb
womby  wombfi
women  women
won  won
woncot  woncot
wond  wond
wonder  wonder
wondered  wonder
wonderful  wonder
wonderfully  wonderfulli
wondering  wonder
wonders  wonder
wondrous  wondrou
wondrously  wondrous
wont  wont
wonted  wont
wrackful  wrack
wrangle  wrangl
wrangler  wrangler
wranglers  wrangler
wrangling  wrangl
wrap  wrap
wrapp  wrapp
wraps  wrap
wrapt  wrapt
wrath  wrath
wrathful  wrath
wrathfully  wrathfully
wraths  wrath
wreak  wreak
wreakful  wreak
wreaks  wreak
wreath  wreath
wreathed  wreath
wreathen  wreathen
wreaths  wreath
wreck  wreck
wrecked  wreck
wrecks  wreck
wren  wren
wrench  wrench
wrenching  wrench
wrenching  wrench
wrens  wren
wrest  wrest
wrested  wrest
wresting  wrest
wrestle  wrestl
wrestled  wrestl
wrestler  wrestler
wrestling  wrestl
wretch  wretch
wretched  wretched
wretched  wretched
wretched  wretched
wretches  wretch
wring  wring
wring  wring
wring  wring
wrinkle  wrinkl
wrinkled  wrinkl
wrinkles  wrinkl
wrist  wrist
wrists  wrist
# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
exesql {

yorkists  yorkist
yorks    york
yorkshire yorkshir
you      you
young    young
younger  younger
youngest youngest
youngling youngl
younglings youngl
youngly  youngli
younker  younker
your     your
yours    your
yourself yourself
yourselves yourself
youth   youth
youthful youth
youths  youth
youtlI  youtlI
zancies zani
zany    zani
zeal     zeal
zealous  zealou
zeals    zeal
zed      zed
zenelophon zenelophon
zenith   zenith
zephyrs  zephyr
zir      zir
zo       zo
zodiac   zodiac
zodiacs  zodiac
zone     zone
zounds   zound
zswagger zwagger

}
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
Ip0N72K3/sqlite-src-3071700.zip-cosi-expand-archive-6de8ba8h/sqlite-src-3071700/test/fts1porter.test
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other
proprietary or non-standard VFSes.

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code.  In place of
 ** a legal notice, here is a blessing:
 **
 **  May you do good and not evil.
 **  May you find forgiveness for yourself and forgive others.
 **  May you share freely, never taking more than you give.
 **
 ********************************************
 **
 ** This file contains the VFS implementation for unix-like operating systems
 ** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
 **
 ** There are actually several different VFS implementations in this file.
 ** The differences are in the way that file locking is done.  The default
 ** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**  * sqlite3_file methods not associated with locking.
**  * Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**  * sqlite3_vfs method implementations.
**  * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**  * Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
Ip0N72K3/sqlite-src-3071700.zip-cosi-expand-archive-6de8ba8h/sqlite-src-3071700/src/os_unix.c

No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont

No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
  execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
  }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
           ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
# Check out the substr() function
#
# do_test func-2.0 {
# execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
# do_test func-2.1 {
# execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
# do_test func-2.2 {
# execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
# do_test func-2.3 {
# execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
# do_test func-2.4 {
# execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
# do_test func-2.5 {
# execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
# do_test func-2.6 {
# execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
# do_test func-2.7 {
# execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
# do_test func-2.8 {
# execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
# do_test func-2.9 {
# execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
# do_test func-2.10 {
# execsql {SELECT substr(a,2,2) FROM t2}
} {} {} 45 {} 78

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"="u1234"} {

# Put some UTF-8 characters in the database
#
# do_test func-3.0 {
# execsql {DELETE FROM tbl1}
# do_test func-3.0 {
# execsql {DELETE FROM tbl1}
# do_test func-3.0 {
# execsql {DELETE FROM tbl1}
# do_test func-3.0 {
# execsql {DELETE FROM tbl1}
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# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
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# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
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# do_test func-3.0 {
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# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
# execsql {DELETE From tbl1}
# do_test func-3.0 {
execsql {SELECT t1 FROM tbl1 ORDER BY t1} 
"UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
  execsql (SELECT length(t1) FROM tbl1 ORDER BY t1)
} {5 10 8 5}
do_test func-3.2 {
  execsql (SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1)
} {UT ch co hi}
do_test func-3.3 {
  execsql (SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1)
} "UTF cha con hi\u1234"
do_test func-3.4 {
  execsql (SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1)
} "TF ha on \u1234"
do_test func-3.5 {
  execsql (SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1)
} "TF- har ont \u1234h"
do_test func-3.6 {
  execsql (SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1)
} "F- ar nt \u1234h"
do_test func-3.7 {
  execsql (SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1)
} "-8 ra ta ho"
do_test func-3.8 {
  execsql (SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1)
} "8 s s o"
do_test func-3.9 {
  execsql (SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1)
} "F- er in \u1234h"
do_test func-3.10 {
  execsql (SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1)
} "TF- ter ain \u1234h"
do_test func-3.99 {
  execsql (DELETE FROM tbl1)
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql (SELECT t1 FROM tbl1)
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
  execsql {

CREATE TABLE t1(a, b, c);
INSERT INTO t1 VALUES(1, 2, 3);
INSERT INTO t1 VALUES(2, 12345678901234, -1234567890);
INSERT INTO t1 VALUES(3, -2, -5);
}
catchsql {SELECT abs(a, b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
execsql {
CREATE TABLE t1(a, b, c);
INSERT INTO t1 VALUES(1, 2, 3);
INSERT INTO t1 VALUES(2, 1.2345678901234, -12345.67890);
INSERT INTO t1 VALUES(3, -2, -5);
}
catchsql {SELECT abs(a, b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 1.2345678901234 2]}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 12345.6789 5]}
}
ifcapable !floatingpoint {
if {{working_64bit_int}} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 12345678901234 2]}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 1234567890 5]}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 [345 {} 67890]}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
}
ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),’nil’) FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
execsql {SELECT round($x1);}
} $x2
}
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.05 + $i]
set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
    execsql {SELECT round($x1,1);}
} $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.4999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.4999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.4999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.5}
do_test func-4.24.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.5}
do_test func-4.25.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);}
}
do_test func-4.33 {
  execsql {SELECT round(12345678901234.5);}
} {1234567890124.0}
do_test func-4.34 {
  execsql {SELECT round(1234567890123.4);}
} {1234567890123.4}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.45);}
} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(99999999999995.0);}
} {9999999999999.5}
do_test func-4.37 {
  execsql {SELECT round(9999999999999.6);}
} {9999999999999.56}
do_test func-4.38 {
  execsql {SELECT round(9999999999999.556);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
do_test func-5.4 {
  catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
  execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
  }
} {z+67890abcdefhijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
ifcapable tempdb {
do_test func-8.3 {
execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
else {
do_test func-8.3 {
    execsql {
        CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
    } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
}
do_test func-8.4 {
    execsql {
        SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
    } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
}
ifcapable compound {
do_test func-8.5 {
    execsql {
        SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
            UNION ALL SELECT -9223372036854775807)
    } {0}
do_test func-8.6 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
            UNION ALL SELECT -9223372036854775807)
    } {integer}
do_test func-8.7 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
            UNION ALL SELECT -9223372036854775807)
    } {real}
}
ifcapable floatingpoint {
do_test func-8.8 {
    execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775807' AS x
            UNION ALL SELECT -9223372036854775807)
    } {1}
}
ifcapable !floatingpoint {
do_test func-8.8 {
    execsql {

# How do you test the random() function in a meaningful, deterministic way?

```sql
do_test func-9.1 {
    execsql {
        SELECT random() is not null;
    }
} {1}

do_test func-9.2 {
    execsql {
        SELECT typeof(random());
    } {integer}
}

do_test func-9.3 {
    execsql {
        SELECT randomblob(32) is not null;
    } {1}
}

do_test func-9.4 {
    execsql {
        SELECT typeof(randomblob(32));
    } {blob}
}

do_test func-9.5 {
    execsql {
        SELECT length(randomblob(32)), length(randomblob(-5)),
            length(randomblob(2000))
    } {32 1 2000}
```

# The "hex()" function was added in order to be able to render blobs generated by randomblob(). So this seems like a good place to test it.

```sql
if capable bloblit {
    do_test func-9.10 {
        execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}
    } {00112233445566778899AABBCCDDEEFF}
}
```

set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
        ```sql
SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
UNION ALL SELECT -9223372036850000000)
```
execsql {SELECT hex(replace('abcdefg','ef','12'))} {6100620063006400310032006700}
do_test func-9.12-utf16le {
   execsql {SELECT hex(replace('abcdefg',',','12'))} {6100620063006400650066006700}
do_test func-9.13-utf16le {
   execsql {SELECT hex(replace('abcdefg','a','aaa'))} {610061006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
   execsql {SELECT hex(replace('abcdefg','ef','12'))} {61626364313267}
do_test func-9.12-utf8 {
   execsql {SELECT hex(replace('abcdefg','ef','12'))} {61626364656667}
do_test func-9.13-utf8 {
   execsql {SELECT hex(replace('abcdefg','a','aaa'))} {616161616161626364656667}}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
   SELECT testfunc(NULL,NULL);
}
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
execsql {
   SELECT testfunc(
       'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
       'int', 1234
   );
}
} {1234}
do_test func-10.3 {
execsql {
   SELECT testfunc(
       'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
       'string', NULL
   );
}
} {{}}
if capable floatingpoint {
  do_test func-10.4 {
    execsql {
      SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
    }
  } {1.234}
  do_test func-10.5 {
    execsql {
      SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
    }
  } {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
# do_test func-11.1 {
#  execsql {
#    SELECT sqlite_version(*);
#  }
#  } [sqlite3 -version]
#
# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() etc. are called. These tests use two special user-defined functions (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the text form of that argument. A destructor is associated with the return value. Function test_destructor_count() returns the number of outstanding destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]}=="UTF-8"} {
do_test func-12.1-utf8 {
  execsql {
    SELECT test_destructor('hello world'), test_destructor_count();
  }
} {{hello world} 1}
} else {
  ifcapable {utf16} {
    do_test func-12.1-utf16 {
      execsql {
        SELECT test_destructor16('hello world'), test_destructor_count();
      }
    } {{hello world} 1}
  }
}

do_test func-12.2 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.3 {
  execsql {
    SELECT test_destructor('hello') || ' world'
  }
} {{hello world}}

do_test func-12.4 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}

do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test_destructor('hello'));
    INSERT INTO t4 VALUES(test_destructor('world'));
    SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
  }
} {hello world}

do_test func-12.6 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}

do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
} {}
# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  }
} {0}
do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
} {}
do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}
do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}
do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}
do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello||world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "$DB"SELECT test_auxdata( ?, a ) FROM t4;"
  set STMT [sqlite3_prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "$DB":SQLITE_ROW"==[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
  }
}
lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
    db function [string repeat X 254] {return "hello"}
} {0}
do_test func-14.2 {
catch {
    db function [string repeat X 256] {return "hello"}
} {1}
}

do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}  
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
    db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
execsql {
    CREATE TABLE tbl2(a, b);
}
set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}

# Correctly handle function error messages that include % . Ticket #1354
#
do_test func-17.1 {
proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
catchsql {

SELECT testfunc1(1,2,3);
}
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
  execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
  }
} {9902}
if capable floatingpoint {
  do_test func-18.2 {
    execsql {
      INSERT INTO t5 VALUES(0.0);
      SELECT sum(x) FROM t5;
    }
  } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
  execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
  }
} {{{} 0.0}
do_test func-18.4 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{{} 0.0}
do_test func-18.5 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{{} 0.0}
do_test func-18.6 {
  execsql {

INSERT INTO t5 VALUES(123);
SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0

do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
}
} 0.0
}
if {[working_64bit_int]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
    -9223372036854775805
  }
  if{capable compound&&subquery} {
  }
  do_test func-18.15 {
    catchsql {
      SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
         SELECT 10 AS x);
    }
    {1 {integer overflow}}
  }
  if {[working_64bit_int]} {
    do_test func-18.16 {
      catchsql {
        SELECT sum(x) FROM
          (SELECT 9223372036854775807 AS x UNION ALL
           SELECT -10 AS x);
      }
      {0 9223372036854775797}
    }
    do_test func-18.17 {
      catchsql {
        SELECT sum(x) FROM
          (SELECT -9223372036854775807 AS x UNION ALL
           SELECT 10 AS x);
      }
      {0 -9223372036854775797}
    }
    do_test func-18.18 {
      catchsql {
        SELECT sum(x) FROM
          (SELECT -9223372036854775807 AS x UNION ALL
           SELECT -10 AS x);
      }
      {1 {integer overflow}}
    }
    do_test func-18.19 {
      catchsql {
        SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
      }
      {0 -1}
    }
    do_test func-18.20 {
      catchsql {
        SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
      }
    }
  }
}

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do_test func-18.21 {
    catchsql {
        SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
    }
} {0 -1}
do_test func-18.22 {
    catchsql {
        SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
    }
} {0 1}

} ;# if capable compound&&subquery

# Integer overflow on abs()
#
if {[[working_64bit_int]]} {
    do_test func-18.31 {
        catchsql {
            SELECT abs(-9223372036854775807);
        }
    } {0 9223372036854775807}
    do_test func-18.32 {
        catchsql {
            SELECT abs(-9223372036854775807-1);
        }
    } {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
    do_test func-19.1 {
        execsql {
            SELECT match(a,b) FROM t1 WHERE 0;
        }
    } {}
do_test func-19.2 {
    catchsql {
        SELECT 'abc' MATCH 'xyz';
    }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
    catchsql {
        SELECT 'abc' NOT MATCH 'xyz';
    }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
    catchsql {

SELECT match(1,2,3);  
}  
} {1 {wrong number of arguments to function match()}}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {  
set i 0  
foreach {name sdx} {  
euler E460  
EULER E460  
Euler E460  
ellery E460  
gauss G200  
ghosh G200  
hilbert H416  
Heilbronn H416  
knuth K530  
kant K530  
Lloyd L300  
LADD L300  
Lukasiewicz L222  
Lissajous L222  
A A000  
12345 000  
} {  
incr i  
do_test func-20.$i {  
excsql {SELECT soundex($name)}  
} $sdx  
}  
}

# Tests of the REPLACE function.
#
do_test func-21.1 {  
catchsql {  
SELECT replace(1,2);  
}  
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {  
catchsql {  
SELECT replace(1,2,3,4);  
}  
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {  
excsql {  
SELECT typeof(replace("This is the main test string", NULL, "ALT"));  
}  
}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
}
}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
}
}
do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
}
}
do_test func-21.8 {
execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
}
}
ifcapable tclvar {
do_test func-21.9 {
# Attempt to exploit a buffer-overflow that at one time existed
# in the REPLACE function.
set ::str "[string repeat A 29998]CC[string repeat A 35537]"
set ::rep [string repeat B 65536]
execsql {
    SELECT LENGTH(REPLACE($::str, 'C', $::rep));
}
} [expr 29998 + 2*65536 + 35537]
}
# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT Ltrim(1,2,3)}
} {1 {wrong number of arguments to function Ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
excsql {SELECT trim(' hi ');} 
} {hi}
do_test func-22.5 {
excsql {SELECT ltrim(' hi ');} 
} {hi}
do_test func-22.6 {
excsql {SELECT rtrim(' hi ');} 
} {hi}
do_test func-22.7 {
excsql {SELECT trim(' hi ','xyz');} 
} { hi }
do_test func-22.8 {
excsql {SELECT ltrim(' hi ','xyz');} 
} { hi }
do_test func-22.9 {
excsql {SELECT rtrim(' hi ','xyz');} 
} { hi }
do_test func-22.10 {
excsql {SELECT trim('xyzzy hi zzyz','xyz');} 
} { hi }
do_test func-22.11 {
excsql {SELECT ltrim('xyzzy hi zzyz','xyz');} 
} { hi zzyz}
do_test func-22.12 {
excsql {SELECT rtrim('xyzzy hi zzyz','xyz');} 
} {xyzzy hi }
do_test func-22.13 {
excsql {SELECT trim(' hi ','""');} 
} { hi }
if {[db one {PRAGMA encoding}]=="UTF-8"} {
do_test func-22.14 {
excsql {SELECT hex(trim(x'c280e1bfbff48fbff6869','x'6162e1bfbfc280'))} 
} {F48FBF6869}
do_test func-22.15 {
excsql {SELECT hex(trim(x'6869c280e1bfbff48fbff611',
x'6162e1bfbfc280f48fbff'))} 
} {6869}
do_test func-22.16 {
excsql {SELECT hex(trim(x'ceb1ceb2ceb3','x'ceb1'))};} 
} {CEB2CEB3}
do_test func-22.20 {
excsql {SELECT typeof(trim(NULL));} 
} {null}
do_test func-22.21 {
execsql (SELECT typeof(trim(NULL,'xyz'));)
} {null}
do_test func-22.22 {
execsql (SELECT typeof(trim('hello',NULL));)
} {null}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
do_test func-23.1 {
sqlite3_create_aggregate db
execsql {
    SELECT legacy_count() FROM t6;
}
} {3}
}

# The group_concat() function.
#
do_test func-24.1 {
execsql {
    SELECT group_concat(t1) FROM tbl1
}
} {this,program,is,free,software}
do_test func-24.2 {
execsql {
    SELECT group_concat(t1,' ') FROM tbl1
}
} {this program is free software}
do_test func-24.3 {
execsql {
    SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
}
} {this 2 program 3 is 4 free 5 software}
do_test func-24.4 {
execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
}
} {null}
do_test func-24.5 {
execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
}
} {thisprogramisfreesoftware}
do_test func-24.6 {
execsql {
    SELECT 'BEGIN-:'||group_concat(t1) FROM tbl1
}
# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
  append midargs ,/$i'
  append midres /$i
  set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"

  set sql "SELECT md5sum(t$midargs) FROM tbl1"

  do_test func-24.7.$i {
    db eval $::sql
  } $result
} $result

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
  }
} {program,is,free,software}
do_test func-24.9 {
  execsql {
    SELECT group_concat(CASE WHEN t1!="software" THEN '' ELSE t1 END) FROM tbl1
  }
} {,,,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  }
} {program,is,free,software}
do_test func-24.11 {
  execsql {
    SELECT group_concat(CASE WHEN t1!="software" THEN null ELSE t1 END) FROM tbl1
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
      WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  }
}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
# do_test func-25.1 {
#  execsql {SELECT test_isolation(t1,t1) FROM tbl1}
#} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
# do_test func-26.1 {
  abuse_create_function db
} {

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
# do_test func-26.2 {
  set a {}
  for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
    lappend a $i
  }
  db eval "
    SELECT
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
    9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
    s, $a,");
  "
} {
}

# do_test func-26.3 {
  set a {}
  for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
    lappend a $i
  }
  catchsql "
    SELECT
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
    9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
    s, $a,");
  "
} {
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}

Open Source Used In OnPrem2.1 2.2 23553


do_test func-27.2 {
    catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
    catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
    db eval {
        CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
    }
catchsql {
        INSERT INTO t28(x) VALUES(1);
    }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
    db eval {
        CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
        INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
        INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
        INSERT INTO t29 VALUES(5, "hello", 7);
    }
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}
do_test func-29.3 {
    db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x>100} {set x many}
set x
} {many}
}
do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29} } {1000009}
do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$u00A2u20AC}]
for {set i 1} {$i<0xd800} {incr i 13} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%%Copyright
No license file was found, but licenses were detected in source scan.
/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

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No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the _____ day of ______________, 2007 ("Effective Date")
by and between ______________ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>
("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of
the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support

The SQLite Developers shall at Company's request provide
Company with direct assistance
in debugging applications that are built upon or use SQLite.
The combined time for Debugging Support and Custom
Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company
write new extensions or enhancements
to SQLite according to Company's specifications. These extensions
and enhancements may be proprietary to Company or open source or
with the consent of both Company and the SQLite Architect may
be folded into the public domain SQLite source tree.
The time devoted to Custom Development for Company is limited 220 hours
per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company
with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support
and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run
acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release
of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs
in SQLite that are reported by Company or in which Company has
expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source
code well commented and documented and clearly structured and
organized so that an experienced and competent programmer can
understand it and support it after no more than a few months of study.
<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>
<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository.
by at least 400 kilometers.
</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.
</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.
</p>

<h4>2.3.9 New Consortium Members</h4>
<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.
</p>

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.
</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".
</p>

<h4>2.4.2 Copyright Disclaimer</h4>
Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees

In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company’s discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.
4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

4.3 Return of Materials

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual
property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.

6.0 Representations And Warranties

6.1 Intellectual Property Clearances.

Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.

6.2 Disclaimer.

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.
7.0 Term And Termination

7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8. Miscellaneous

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing.
and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements.
either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties. </p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement. </p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof. </p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company. </p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms. </p>

<table width="100%" border="0">
<tr><td valign="top"><br />
HWACI<br />
By:<hr />
Print Name:<hr />
Title:<hr />
</td><td width="10%"></td>
<td valign="top"><br />
COMPANY<br />
By:<hr />
</td>
</tr>
</table>
No license file was found, but licenses were detected in source scan.

Even though SQLite is in the public domain and does not require the public domain.  
their contributions to the public domain.  
in this code to the public domain.  We make this dedication for the benefit

is free to use SQLite from multiple threads, but it must make sure

and so many groups use SQLite

# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#***********************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
# do_test fuzz-oss1-skrooge {
#   db eval {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
TEXT NOT NULL DEFAULT "," ,t_name TEXT NOT NULL ,t_value TEXT NOT NULL DEFAULT "," ,b_blob
BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL ,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')) ,d_date DATE NOT
NULL ,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')) ,i_parent INTEGER,
t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rdoctransaction_id INTEGER NOT NULL ,i_object_id INTEGER NOT NULL ,t_object_table TEXT NOT
NULL ,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')) ,t_sqlorder TEXT NOT NULL
DEFAULT '');
CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rdoctransaction_id INTEGER NOT NULL ,t_message TEXT NOT NULL DEFAULT "," ,t_popup VARCHAR(1)
DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL ,t_symbol TEXT NOT NULL DEFAULT "," ,t_country TEXT NOT NULL DEFAULT "," ,t_type VARCHAR(1)
NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'S', 'I', 'O')) ,t_internet_code TEXT NOT NULL
DEFAULT "," ,i_nbdecimal INT NOT NULL DEFAULT 2 ,rd_unit_id INTEGER NOT NULL DEFAULT 0 ,t_source
TEXT NOT NULL DEFAULT "," );
CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rdoctransaction_id INTEGER NOT NULL ,t_message TEXT NOT NULL DEFAULT "," ,t_popup VARCHAR(1)
DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL ,t_symbol TEXT NOT NULL DEFAULT "," ,t_country TEXT NOT NULL DEFAULT "," ,t_type VARCHAR(1)
NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'S', 'I', 'O')) ,t_internet_code TEXT NOT NULL
DEFAULT "," ,i_nbdecimal INT NOT NULL DEFAULT 2 ,rd_unit_id INTEGER NOT NULL DEFAULT 0 ,t_source
TEXT NOT NULL DEFAULT "," );
CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rdoctransaction_id INTEGER NOT NULL ,t_message TEXT NOT NULL DEFAULT "," ,t_popup VARCHAR(1)
DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE open_source_used_in_onprem2.1
(
d_date DATE NOT NULL,
f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank
(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
t_name TEXT NOT NULL DEFAULT '',
t_bank_number TEXT NOT NULL DEFAULT '',
t_icon TEXT NOT NULL DEFAULT '');
CREATE TABLE interest
(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
rd_account_id INTEGER NOT NULL,
d_date DATE NOT NULL,
f_rate FLOAT NOT NULL CHECK (f_rate>=0),
rd_interest_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (rd_interest_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),
t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),
t_expense_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expense_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')));
CREATE TABLE operation
(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
i_group_id INTEGER NOT NULL DEFAULT 0,
i_number INTEGER DEFAULT 0 CHECK (i_number>=0),
d_date DATE NOT NULL DEFAULT '0000-00-00',
r_account_id INTEGER NOT NULL,
t_mode TEXT NOT NULL DEFAULT '',
r_payee_id INTEGER NOT NULL DEFAULT 0,
t_comment TEXT NOT NULL DEFAULT '',
r_rc_unit_id INTEGER NOT NULL DEFAULT 0,
r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
### Table: `recurrentoperation`

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Default</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>INTEGER NOT NULL</td>
<td>PRIMARY KEY AUTO_INCREMENT</td>
<td></td>
</tr>
<tr>
<td>d_date</td>
<td>DATE</td>
<td>NOT NULL DEFAULT '0000-00-00'</td>
<td>unidad de tiempo, año, mes, día, hora, minuto, segundo</td>
</tr>
<tr>
<td>rd_operation_id</td>
<td>INTEGER NOT NULL</td>
<td></td>
<td>unidad de tiempo, año, mes, día, hora, minuto, segundo</td>
</tr>
<tr>
<td>i_period_increment</td>
<td>INTEGER</td>
<td>NOT NULL DEFAULT 1</td>
<td>mayor o igual a 0</td>
</tr>
<tr>
<td>t_period_unit</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT 'M'</td>
<td>'D' = día, 'W' = semana, 'M' = mes, 'Y' = año</td>
</tr>
<tr>
<td>t_auto_write</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'Y'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
<tr>
<td>i_auto_write_days</td>
<td>INTEGER</td>
<td>NOT NULL DEFAULT 5</td>
<td>mayor o igual a 0</td>
</tr>
<tr>
<td>t_warn</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'Y'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
<tr>
<td>i_warn_days</td>
<td>INTEGER</td>
<td>NOT NULL DEFAULT 5</td>
<td>mayor o igual a 0</td>
</tr>
<tr>
<td>t_times</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'N'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
<tr>
<td>i_nb_times</td>
<td>INTEGER</td>
<td>NOT NULL DEFAULT 1</td>
<td>mayor o igual a 0</td>
</tr>
</tbody>
</table>

### Table: `category`

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Default</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>INTEGER NOT NULL</td>
<td>PRIMARY KEY AUTO_INCREMENT</td>
<td></td>
</tr>
<tr>
<td>t_name</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT ''</td>
<td>nombre de categoría, texto final</td>
</tr>
<tr>
<td>t_fullname</td>
<td>TEXT</td>
<td></td>
<td>nombre de categoría, texto final</td>
</tr>
<tr>
<td>rd_category_id</td>
<td>INT</td>
<td></td>
<td>unidad de identificador de categoría</td>
</tr>
<tr>
<td>t_bookmarked</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'N'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
</tbody>
</table>

### Table: `account`

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Default</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>INTEGER NOT NULL</td>
<td>PRIMARY KEY AUTO_INCREMENT</td>
<td></td>
</tr>
<tr>
<td>t_name</td>
<td>TEXT</td>
<td>NOT NULL</td>
<td>nombre del cliente, cuenta, tipo de cuenta</td>
</tr>
<tr>
<td>t_number</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT ''</td>
<td>número de cuenta</td>
</tr>
<tr>
<td>t_agency_number</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT ''</td>
<td>número de agencia</td>
</tr>
<tr>
<td>t_agency_address</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT ''</td>
<td>dirección de agencia</td>
</tr>
<tr>
<td>t_comment</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT ''</td>
<td>comentario del cliente</td>
</tr>
<tr>
<td>t_close</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'N'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
<tr>
<td>t_type</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'C'</td>
<td>'C' = cuenta, 'D' = depósito, 'A' = ambos, 'I' = ingreso, 'L' = líquido, 'W' = trabajo, 'O' = otro</td>
</tr>
<tr>
<td>t_bookmarked</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'N'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
<tr>
<td>rd_bank_id</td>
<td>INTEGER NOT NULL</td>
<td></td>
<td>unidad de identificador de banco</td>
</tr>
</tbody>
</table>

### Table: `node`

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Default</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>INTEGER NOT NULL</td>
<td>PRIMARY KEY AUTO_INCREMENT</td>
<td></td>
</tr>
<tr>
<td>t_name</td>
<td>TEXT</td>
<td>NOT NULL DEFAULT ''</td>
<td>nombre de nodo, texto final</td>
</tr>
<tr>
<td>t_fullname</td>
<td>TEXT</td>
<td></td>
<td>nombre de nodo, texto final</td>
</tr>
<tr>
<td>rd_node_id</td>
<td>INT</td>
<td>CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE</td>
<td>unidad de identificador de nodo</td>
</tr>
<tr>
<td>t_icon</td>
<td>TEXT</td>
<td></td>
<td>icone del nodo</td>
</tr>
<tr>
<td>f_sortorder</td>
<td>FLOAT</td>
<td></td>
<td>orden de nodo</td>
</tr>
<tr>
<td>t_autostart</td>
<td>VARCHAR(1)</td>
<td>NOT NULL DEFAULT 'N'</td>
<td>'Y' = sí, 'N' = no</td>
</tr>
<tr>
<td>t_data</td>
<td>TEXT</td>
<td></td>
<td>datos del nodo</td>
</tr>
</tbody>
</table>

### Table: `vm_category_display_tmp`

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Default</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>INT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t_name</td>
<td>TEXT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t_fullname</td>
<td>TEXT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>rd_category_id</td>
<td>INT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t_bookmarked</td>
<td>TEXT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i_NBOPERATIONS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f_REALCURRENTAMOUNT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table: `vm_budget_tmp`

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Default</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>INT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>rc_category_id</td>
<td>INT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t_including_subcategories</td>
<td>TEXT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f_budgeted</td>
<td>REAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f_budgeted_modified</td>
<td>REAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f_transferred</td>
<td>REAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i_year</td>
<td>INT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i_month</td>
<td>INT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>t_CATEGORY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>t.PERIOD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f_CURRENTAMOUNT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>t_RULES</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname FROM node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname FROM parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent = OLD.id||'-'||parameters';
END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node
    WHERE parameters.t_uuid_parent = OLD.id||'-'||node';
END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node
    BEGIN UPDATE node SET t_fullname = CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id = 0 THEN
        new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id = new.rd_node_id) END;
END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node
    BEGIN UPDATE node SET t_fullname = CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id = 0 THEN
        new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id = new.rd_node_id) END;
END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account
    BEGIN SELECT RAISE (ABORT, 'Impossible d'ajouter un objet (bank est utilise par account)'
        WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id=''
        AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (bank est utilise par account)'
        WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id=''
        AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible d’ajouter un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible d’ajouter un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible d’ajouter un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible d’ajouter un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible d’ajouter un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible d’ajouter un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule
    BEGIN SELECT RAISE (ABORT, 'Impossible de modifier un objet (category est utilise par budgetrule)'
        WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id=''
        AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category
    BEGIN SELECT RAISE (ABORT, 'Impossible de dtroire un objet (category est utilise par budget)'
        WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category) Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category) Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM category WHERE category.rd_category_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN
DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilisé par doctransactionmsg) Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE

ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fk_u_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fk_u_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fk_d_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fk_d_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!=" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!=" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fk_d_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fk_d_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!=" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN     UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id')   WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id')   WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilisé par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id')     WHERE (SELECT rc_unit_id FROM operation
WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation
est utilisé par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id')   WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet
(recurrentoperation est utilisé par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id')       WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN     UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance
FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par
operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id')   WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par
operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id')       WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN     UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id')       WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkd_recurrentoperation_operation_rd_operation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN     UPDATE recurrentoperation SET rd_operation_id=0 WHERE rd_operation_id=OLD.id; END;
CREATE TRIGGER fki_operationunit_operation_rd_operation_id_id BEFORE INSERT ON operationunit
FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operationunit
est utilisé par operationunit)
Nom de la contrainte: fki_operationunit_operation_rd_operation_id_id')   WHERE NEW.rd_operationunit_id!=0 AND NEW.rd_operationunit_id!='' AND (SELECT id FROM operationunit WHERE id = NEW.rd_operationunit_id) IS NULL; END;
CREATE TRIGGER fku_operationunit_operation_rd_operation_id_id BEFORE UPDATE ON operationunit
FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operationunit
est utilisé par operationunit)
Nom de la contrainte: fku_operationunit_operation_rd_operation_id_id')       WHERE NEW.rd_operationunit_id!=0 AND NEW.rd_operationunit_id!='' AND (SELECT id FROM operationunit WHERE id = NEW.rd_operationunit_id) IS NULL; END;
CREATE TRIGGER fkd_operationunit_operation_rd_operation_id_id BEFORE DELETE ON operationunit
FOR EACH ROW BEGIN     UPDATE operationunit SET rd_operationunit_id=0 WHERE rd_operationunit_id=OLD.id; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (opération est utilis par recurrentoperation)')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN   DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (opération est utilis par subopération)')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (opération est utilis par subopération)')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN   DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par subopération)')   WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par subopération)')   WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN   UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;

CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par subopération)')   WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par subopération)')   WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fkdc_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN   UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit)')   WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)')   WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
Nom de la contrainte: fki_unit_unit_rd_unit_id_id) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id) WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE FROM unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE FROM v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT FROM v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)|| 'STRFTIME(%d/%m/%Y,d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers AS T2 ON
WHERE s.id=v_suboperation.r_refund_id),") AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_suboperation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPETYPESENELS, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER,STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name  AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_operation_display u WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00'))) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date=date('now')) AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_RATE, 1.0) AS f_RATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_CURRENTAMOUNT, (SELECT (CASE WHEN s.t_template='N' THEN s.t_name ELSE s.t_symbol END) FROM account s WHERE s.id=v_account.id) AS t_UNIT, (SELECT (CASE WHEN s.t_template='N' THEN s.t_name ELSE s.t_symbol END) FROM unit s WHERE s.id=v_unit.id) AS t_UNIT, (SELECT (CASE WHEN s.t_template='N' THEN s.t_name ELSE s.t_symbol END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT, (SELECT s.t Categoria FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY, (SELECT s.t_Refund FROM v_suboperation s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND, (CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPETYPESENELS, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER,STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce suiveur car utilisé par des opérations rapprochées' END) t_delete_message FROM refund;

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;

CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;

CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce tiers car utilisé par des opérations rapprochées' END) t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT *  FROM v_payee;

CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||' %') AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;

CREATE VIEW v_category_display_tmp AS SELECT *(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;

CREATE VIEW v_category_display AS SELECT * ,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT COUNT
CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname ||’ > %’) AS t_SUMNBOPERATIONS, (CASE WHEN t_bookmarked =’Y’ THEN ’Y’ WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked=’Y’ AND c.t_fullname like vm_category_display_tmp.t_fullname ||’ > %’) THEN ’C’ ELSE ’N’ END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN ’Dpense’ WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ” ELSE ’Revenu’ END) AS t_TYPEEXPENSE, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN ’-‘ WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ” ELSE ‘+’ END) AS t_TYPEEXPENSENLs FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||’ ‘||f_rate||’%’ AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),’’) AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),’’) AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN ’Ngatif’ WHEN budgetrule.i_condition=1 THEN ’Positif’ WHEN budgetrule.i_condition=0 THEN ’Tous’ END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute=’N’ THEN ’%’ ELSE (SELECT t_symbol FROM unit WHERE t_type=’1’) END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule=’N’ THEN ’Suivant’ WHEN budgetrule.t_rule=’C’ THEN ’Courant’ WHEN budgetrule.t_rule=’Y’ THEN ’Anne’ END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||’ ‘||t_WHATNLS||’ ‘||t_RULENLS||’ ‘||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),’’) AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN ” WHEN i_month<10 THEN ’0’||i_month ELSE ’-‘||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,’,’) FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition=’N’ OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition=’N’ OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition=’N’ OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
# The next test requires FTS4
if capable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
        CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
        CREATE VIRTUAL TABLE fts USING fts4;
        CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
        CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupId" INTEGER, "mfo:groupId:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
        CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
        CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
        CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;mfo:FeedType&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;mfo:name&quot; TEXT COLLATE NOCASE, &quot;mfo:name:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoBoundingBox&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>&quot;mlo:GeoBoundingBox_mlo:bbNorthWest&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:bbNorthWest&quot; INTEGER NOT NULL, &quot;mlo:bbNorthWest:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoBoundingBox_mlo:bbSouthEast&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:bbSouthEast&quot; INTEGER NOT NULL, &quot;mlo:bbSouthEast:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoLocation&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>&quot;mlo:GeoLocation_mlo:asBoundingBox&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:asBoundingBox&quot; INTEGER NOT NULL, &quot;mlo:asBoundingBox:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoLocation_mlo:asGeoPoint&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:asGeoPoint&quot; INTEGER NOT NULL, &quot;mlo:asGeoPoint:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoLocation_mlo:asPostalAddress&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:asPostalAddress&quot; INTEGER NOT NULL, &quot;mlo:asPostalAddress:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:address&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:address&quot; TEXT NOT NULL, &quot;mlo:address:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:altitude&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:altitude&quot; REAL NOT NULL, &quot;mlo:altitude:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:city&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:city&quot; TEXT NOT NULL, &quot;mlo:city:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:country&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:country&quot; TEXT NOT NULL, &quot;mlo:country:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:latitude&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:latitude&quot; REAL NOT NULL, &quot;mlo:latitude:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:longitude&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:longitude&quot; REAL NOT NULL, &quot;mlo:longitude:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:state&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:state&quot; TEXT NOT NULL, &quot;mlo:state:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoPoint_mlo:timestamp&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:timestamp&quot; INTEGER NOT NULL, &quot;mlo:timestamp:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>&quot;mlo:GeoSphere&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>&quot;mlo:GeoSphere_mlo:radius&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:radius&quot; REAL NOT NULL, &quot;mlo:radius:graph&quot; INTEGER)</td>
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<td>&quot;mlo:Landmark&quot;</td>
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<td>&quot;mlo:LandmarkCategory&quot;</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td>&quot;mlo:LandmarkCategory_mlo:isRemovable&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:isRemovable&quot; INTEGER NOT NULL, &quot;mlo:isRemovable:graph&quot; INTEGER)</td>
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<td>&quot;mlo:Landmark_mlo:belongsToCategory&quot;</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:belongsToCategory&quot; INTEGER NOT NULL, &quot;mlo:belongsToCategory:graph&quot; INTEGER)</td>
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<tr>
<td>Table Name</td>
<td>Description</td>
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<tr>
<td>mlo:Landmark_mlo:poiLocation</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:poiLocation&quot; INTEGER NOT NULL, &quot;mlo:poiLocation:graph&quot; INTEGER);</td>
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<tr>
<td>mlo:LocationBoundingBox</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>mlo:LocationBoundingBox_mlo:boxEastLimit</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:boxEastLimit&quot; INTEGER NOT NULL, &quot;mlo:boxEastLimit:graph&quot; INTEGER);</td>
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<td>mlo:LocationBoundingBox_mlo:boxNorthLimit</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:boxNorthLimit&quot; INTEGER NOT NULL, &quot;mlo:boxNorthLimit:graph&quot; INTEGER);</td>
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<td>mlo:LocationBoundingBox_mlo:boxSouthWestCorner</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:boxSouthWestCorner&quot; INTEGER NOT NULL, &quot;mlo:boxSouthWestCorner:graph&quot; INTEGER);</td>
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<td>mlo:LocationBoundingBox_mlo:boxVerticalLimit</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:boxVerticalLimit&quot; INTEGER NOT NULL, &quot;mlo:boxVerticalLimit:graph&quot; INTEGER);</td>
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<td>mlo:PointOfInterest</td>
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<td>mlo:Route</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>mlo:Route_mlo:endTime</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:endTime&quot; INTEGER NOT NULL, &quot;mlo:endTime:graph&quot; INTEGER, &quot;mlo:endTime:localDate&quot; INTEGER NOT NULL, &quot;mlo:endTime:localTime&quot; INTEGER NOT NULL);</td>
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<td>mlo:Route_mlo:routeDetails</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:routeDetails&quot; TEXT NOT NULL, &quot;mlo:routeDetails:graph&quot; INTEGER);</td>
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<td>mlo:Route_mlo:startTime</td>
<td>(ID INTEGER NOT NULL, &quot;mlo:startTime&quot; INTEGER NOT NULL, &quot;mlo:startTime:graph&quot; INTEGER, &quot;mlo:startTime:localDate&quot; INTEGER NOT NULL, &quot;mlo:startTime:localTime&quot; INTEGER NOT NULL);</td>
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<tr>
<td>mto:DownloadTransfer</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>mto:State</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>mto:SyncTransfer</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>mto:TransferMethod</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY, "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY, "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER, "nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL, "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL, "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER, "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER, "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER, "ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER, "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER, "ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
<table>
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<tr>
<th>Table Name</th>
<th>Description</th>
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<tr>
<td><code>ncal:AttendeeRole</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:BydayRulePart</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:BydayRulePart_ncal:bydayModifier</code></td>
<td>(ID INTEGER NOT NULL, <code>ncal:bydayModifier</code> INTEGER NOT NULL, <code>ncal:bydayModifier:graph</code> INTEGER)</td>
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<td><code>ncal:CalendarDataObject</code></td>
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<td><code>ncal:CalendarScale</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:CalendarUserType</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td><code>ncal:Calendar_ncal:component</code></td>
<td>(ID INTEGER NOT NULL, <code>ncal:component</code> INTEGER NOT NULL, <code>ncal:component:graph</code> INTEGER)</td>
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<td><code>ncal:EventStatus</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:Freebusy</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:FreebusyPeriod</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, <code>ncal:fbtype</code> INTEGER, <code>ncal:fbtype:graph</code> INTEGER)</td>
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<td><code>ncal:FreebusyType</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td><code>ncal:Freebusy_ncal:freebusy</code></td>
<td>(ID INTEGER NOT NULL, <code>ncal:freebusy</code> INTEGER NOT NULL, <code>ncal:freebusy:graph</code> INTEGER)</td>
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<td><code>ncal:Journal</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, <code>ncal:journalStatus</code> INTEGER, <code>ncal:journalStatus:graph</code> INTEGER)</td>
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<td><code>ncal:JournalStatus</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td><code>ncal:NcalTimeEntity</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:Organizer</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:ParticipationStatus</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td><code>ncal:RecurrenceFrequency</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:related" INTEGER, "ncal:related:graph" INTEGER, "ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, "ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL, ...
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY, "nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER, "nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate" INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate" INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER, 
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:contactGroupName" TEXT COLLATE NOCASE, 
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL, 
"nco:containsContact" INTEGER NOT NULL, 
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:contactMediumComment" TEXT COLLATE NOCASE, 
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL, 
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL, 
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, 
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, 
"nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL, 
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, 
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, 
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER, 
"nco:imAccountType" TEXT COLLATE NOCASE, 
"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE NOCASE, 
"nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER, 
"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, 
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:imID" TEXT COLLATE NOCASE, 
"nco:imID:graph" INTEGER, 
"nco:imNickname" TEXT COLLATE NOCASE, 
"nco:imNickname:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER,
"nco:imAddressAuthStatusTo:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
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<tr>
<th>Table Name</th>
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<tr>
<td>nco:PresenceStatus</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td>nco:Role</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:video&quot; INTEGER, &quot;nco:video:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:blogUrl</td>
<td>(ID INTEGER NOT NULL, &quot;nco:blogUrl&quot; INTEGER NOT NULL, &quot;nco:blogUrl:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:foafUrl</td>
<td>(ID INTEGER NOT NULL, &quot;nco:foafUrl&quot; INTEGER NOT NULL, &quot;nco:foafUrl:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:hasContactMedium</td>
<td>(ID INTEGER NOT NULL, &quot;nco:hasContactMedium&quot; INTEGER NOT NULL, &quot;nco:hasContactMedium:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:hasEmailAddress</td>
<td>(ID INTEGER NOT NULL, &quot;nco:hasEmailAddress&quot; INTEGER NOT NULL, &quot;nco:hasEmailAddress:graph&quot; INTEGER)</td>
</tr>
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<td>nco:Role_nco:hasIMAddress</td>
<td>(ID INTEGER NOT NULL, &quot;nco:hasIMAddress&quot; INTEGER NOT NULL, &quot;nco:hasIMAddress:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:hasPhoneNumber</td>
<td>(ID INTEGER NOT NULL, &quot;nco:hasPhoneNumber&quot; INTEGER NOT NULL, &quot;nco:hasPhoneNumber:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:hasPostalAddress</td>
<td>(ID INTEGER NOT NULL, &quot;nco:hasPostalAddress&quot; INTEGER NOT NULL, &quot;nco:hasPostalAddress:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:url</td>
<td>(ID INTEGER NOT NULL, &quot;nco:url&quot; INTEGER NOT NULL, &quot;nco:url:graph&quot; INTEGER)</td>
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<td>nco:Role_nco:websiteUrl</td>
<td>(ID INTEGER NOT NULL, &quot;nco:websiteUrl&quot; INTEGER NOT NULL, &quot;nco:websiteUrl:graph&quot; INTEGER)</td>
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<td>nco:VideoTelephoneNumber</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td>nfo:Application</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td>nfo:Archive</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nfo:uncompressedSize&quot; INTEGER, &quot;nfo:uncompressedSize:graph&quot; INTEGER)</td>
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<td>nfo:ArchiveItem</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;nfo:isPasswordProtected&quot; INTEGER, &quot;nfo:isPasswordProtected:graph&quot; INTEGER)</td>
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<tr>
<td>nfo:Attachment</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER, "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:tableOfContents" TEXT COLLATE NOCASE, "nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaListEntry" (ID INTEGER NOT NULL, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER, "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER, "nfo:softwareCmdLine" TEXT COLLATE NOCASE, "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime" INTEGER,
"nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph" INTEGER,
"tracker:available" INTEGER, "tracker:available:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph" INTEGER,
"nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT COLLATE NOCASE,
"nie:subject:graph" INTEGER, "nie:mimeType" TEXT COLLATE NOCASE,
"nie:mimeType:graph" INTEGER, "nie:language" TEXT COLLATE NOCASE,
"nie:language:graph" INTEGER, "nie:plainTextContent" TEXT COLLATE NOCASE,
"nie:plainTextContent:graph" INTEGER, "nie:legal" TEXT COLLATE NOCASE,
"nie:legal:graph" INTEGER, "nie:generator" TEXT COLLATE NOCASE,
"nie:generator:graph" INTEGER, "nie:description" TEXT COLLATE NOCASE,
"nie:description:graph" INTEGER, "nie:disclaimer" TEXT COLLATE NOCASE,
"nie:disclaimer:graph" INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT COLLATE NOCASE,
"nie:copyright:graph" INTEGER, "nie:comment" TEXT COLLATE NOCASE,
"nie:comment:graph" INTEGER, "nie:isStoredAs" INTEGER, "nie:isStoredAs:graph" INTEGER,
"nie:version" TEXT COLLATE NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate" INTEGER,
"nie:contentCreated:localTime" INTEGER, "nie:contentAccessed" INTEGER,
"nie:contentAccessed:graph" INTEGER, "nie:contentAccessed:localDate" INTEGER,
"nie:contentAccessed:localTime" INTEGER, "nie:license" TEXT COLLATE NOCASE,
"nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE NOCASE,
"nie:identifier:graph" INTEGER, "nie:licenseType" TEXT COLLATE NOCASE,
"nie:licenseType:graph" INTEGER, "nie:characterSet" TEXT COLLATE NOCASE,
"nie:characterSet:graph" INTEGER, "nie:contentSize" INTEGER,
"nie:contentSize:graph" INTEGER, "nie:rootElementOf" INTEGER,
"nie:rootElementOf:graph" INTEGER, "nie:usageCounter" INTEGER,
"nie:usageCounter:graph" INTEGER, "nco:publisher" INTEGER,
"slo:location" INTEGER, "slo:location:graph" INTEGER,
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CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER, "nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER, "nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER);
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"nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
"nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
"nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
"nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, 
"nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER); 
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL,
"nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
"nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
"nmm:beatsPerMinute" INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
"nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer" INTEGER,
"nmm:composer:graph" INTEGER, "nmm:lyricist" INTEGER, 
"nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER, 
"nmm:trackNumber:graph" INTEGER,
"nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE, 
"nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
"nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash" INTEGER, 
"nmm:flash:graph" INTEGER, "nmm:fnumber" REAL, "nmm:fnumber:graph" INTEGER, 
"nmm:focalLength" REAL, "nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
"nmm:isoSpeed:graph" INTEGER, "nmm:isCropped" INTEGER, 
"nmm:isColorCorrected" INTEGER, "nmm:isColorCorrected:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, 
"nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
"nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, 
"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season" INTEGER,
"nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER, 
"nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT Collate NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT Collate NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT Collate NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT Collate NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT Collate NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT Collate NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range" INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed" INTEGER,
"tracker:fulltextIndexed:graph" INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph" INTEGER,
"tracker:transient" INTEGER, "tracker:transient:graph" INTEGER,
"tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE,
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdfs:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY,
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE,
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE,
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE,
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:bounding:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax" REAL,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph" INTEGER,
"slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
"slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER); CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL,
"slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER,
"tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" 
("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON 
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON 
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON 
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON 
"nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON 
"nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON 
"nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON 
"nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON 
"nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON 
"nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" 
(ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON 
"nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX 
"nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON 
"nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, 
"nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON 
"nfo:BookmarkFolder_nfo:containsBookmark" (ID, 
"nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON 
"nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON 
"nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON 
"nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON 
"nfo:MediaList_nfo:hasMediaFileListEntry" (ID, 
"nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON 
"nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON 
"nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON 
"nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" 
("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON
"nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON
"nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON
"nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON
"nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON "nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON "nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON "nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc" (ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" ("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation4", "nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',') FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation6", "nco:Role_nco:hasEmailAddress" AS "nco:Role_nco:hasEmailAddress7" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."ID"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',') FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE), 'un') FROM (SELECT "nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation8"."ID"), (SELECT GROUP_CONCAT("6_u", ',') FROM (SELECT "rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM "rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE "1_u" = "rdfs:Resource_nao:hasTag9"."ID"), (SELECT Uri FROM Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title",') FROM "nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE), 'un') FROM (SELECT "nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation10"."ID"), (SELECT

Open Source Used In OnPrem2.1 2.2 23617
FOR IMMEDIATE RELEASE:

 SQLite Consortium Launches With Mozilla And Symbian As Charter Members

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.
choice and innovation on the Internet.”</p>

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development,” said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian’s commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible.”</p>

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.</p>

# # #

<b>About SQLite</b></p>

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

CONTACT INFORMATION:<br>SQLite Consortium<br>Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh@sqlite.org<br>http://www.sqlite.org<br>Tel: +1.704.948.4565</p>

About Mozilla</p>

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere.
Mozilla works in the open with a highly disciplined, transparent and cooperative
development process, under the umbrella of the non-profit Mozilla Foundation.
As a wholly owned subsidiary, the Mozilla Corporation organizes the development
and marketing of Mozilla products. This unique structure has enabled Mozilla to
financially support and cultivate competitive, viable community innovation.
For more information, visit www.mozilla.com.

<p>CONTACT INFORMATION:<br>
Mozilla Corporation<br>
Jessica Waight<br>
Tel: +1.415.345.4754<br>
Email: jwaight@outcastpr.com</p>

<p>About Symbian Limited</p>

Symbian is a software licensing company that develops and licenses Symbian OS,
the market-leading open operating system for advanced, data-enabled mobile phones
known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers
and has built close co-operative business relationships with leading companies
across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones
were sold worldwide to over 250 major network operators, bringing the total
number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the
United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.
For more information, please visit www.symbian.com.

<p>CONTACT INFORMATION:<br>
Symbian Global Press Office<br>
Karen Hamblen<br>
+44 207 154 1707<br>
press@symbian.com</p>

MMFauxFont.prc

Found in path(s):
No license file was found, but licenses were detected in source scan.

Found in path(s):
* %BeginFile
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
Ip0N72K3/sqlite-doc-3071700.zip-cosi-expand-archive-ijvHLtA5/sqlite-doc-3071700/about.html
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
#$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:
If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 24990</td>
<td>0</td>
</tr>
<tr>
<td>2500 - 54995000</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td>6000</td>
</tr>
</tbody>
</table>

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:
Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,
I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '');
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy'}

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com,'
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO
Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610);

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: Subject: About St Pauls

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you;

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com,
randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report
named: West VaR
name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is
now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,
ggreen2@txu.com, timpowell@txu.com,','Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
110.000 / HPL IFERC

LS HPL LSK IC      30.000 / Enron

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com',
'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works."

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', "
'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no
subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com',
'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of
which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done........................................

Thanks
-------------------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM --------------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.
If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

Thanks for your understanding in this matter.
T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben’;

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.’;

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for’, ‘FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch’;

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,
Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUD Enron/XGate
cc: Ross Sankey/Enron@EUD Enron/XGate, Eric Shaw/ENRON@EUD Enron/XGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email(from,to,subject,body) VALUES('peggy.a.kostial@accenture.com',
dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.
We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM ---------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.

Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.
Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM
To: Darron C Giron/HOU/ECT@ECT
cc: 
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of ‘3’ indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',

Open Source Used In OnPrem2.1 2.2 23642
'jworman@academyofhealth.com', ",'Have a great weekend!  Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ", 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & ', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

INSERT INTO email(from, to, subject, body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
    TRANS_TYPE: FINAL
    LOAD_ID: PGE4
    MKT_TYPE: 2
    TRANS_DATE: 4/22/01
    SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8')
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
   COMMIT;
}
}

# Everything above just builds an interesting test database. The actual
tests come after this comment.

---

do_test fts2c-1.2 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts2c-1.4 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark susan'
 }
} {40}
do_test fts2c-1.5 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'susan mark'
 }
} {40}
do_test fts2c-1.6 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '"mark susan"'
 }
} {}
do_test fts2c-1.7 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}
}

do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}
}

# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.

# do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}
}

do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}
}

do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}
}

do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}
}

do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
}
}

# Document 32 contains 5 instances of the word "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
  Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
  Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing

---

Open Source Used In OnPrem2.1 2.2 23648
Contract negotiations ]]
do_test fts2c-4.5 {
execsql {
  SELECT snippet(email,'<<','>>',' ') FROM email
  WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>@germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH "pursuant to"
}
} {{Erin:
  <b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
  Variances detected.
  Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Q</b>estar <b>...</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b> </h>])

do_test fts2c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@enron.com} <b>...</b> six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 <b>...</b> ]}

finish_test

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  Ip0N72K3/sqlite-src-3071700.zip-cosi-expand-archive-6de8ba8h/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%Version
No license file was found, but licenses were detected in source scan.

License: Public Domain

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  Ip0N72K3/sqlite.spec
No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of
members can also request their own private, proprietary extensions

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

Found in path(s):

Sqlite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):

application code is free to use these routines as well, if desired.

Found in path(s):

/*
 ** The "printf" code that follows dates from the 1980's. It is in
 ** the public domain. The original comments are included here for
 ** completeness. They are very out-of-date but might be useful as
 ** an historical reference. Most of the "enhancements" have been backed
 ** out so that the functionality is now the same as standard printf().
 **
 ** **************************************************************************
This file contains code for a set of "printf"-like routines. These routines format strings much like the printf() from the standard C library, though the implementation here has enhancements to support SQLite.

Found in path(s):
*/

*/

** CAPI3REF: Configuration Options
** KEYWORDS: [configuration option]
**
** These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.
**

** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the [threading mode] to Single-thread. In other words, it disables all mutexing and puts SQLite into a mode where it can only be used by a single thread. ^If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option. </dd>

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the [threading mode] to Multi-thread. In other words, it disables mutexing on [database connection] and [prepared statement] objects. The application is responsible for serializing access to [database connections] and [prepared statements]. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same [database connection] at the same time. ^If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZE]] <dt>SQLITE_CONFIG_SERIALIZE</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZE configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^  
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status()]
** </ul>^  
** ^Memory allocation statistics are enabled by default unless SQLite is
compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.

This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16.

The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.

SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads.

SQLite will never require a scratch buffer that is more than 6 times the database page size. If SQLite needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.

This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation. This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.

There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N).

The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. The page header size is 20 to 40 bytes depending on the host architecture. It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory.

SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space.

The pointer in the first argument must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.

This option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].

There are three arguments: An 8-byte aligned pointer to the memory, the number of bytes in the memory buffer, and the minimum allocation size.

If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt></dd>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt></dd>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt></dd>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(This option sets the
** <i>&lt;default&gt;</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt></dd>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)\(^{1}\) SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>

**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd>\(^{1}\)This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)\(^{1}\) </dd>

**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** \(^{1}\)The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. \(^{1}\)If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. \(^{1}\)If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** \(^{1}\)The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. \(^{1}\)The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. \(^{1}\)The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>

**

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI</dt>
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.</dd>

**

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN</dt>
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.

**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd> This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd> SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dd>
*/

Found in path(s):
* /opt/cola/permits/1152388776_1618226296.59/0/sqlite-3.7.17-8.el7_1-1.src.rpm-cosi-expand-archive-
Ip0N72K3/sqlite-src-3071700.zip-cosi-expand-archive-6de8ba8h/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

\{string currentfile exch readstring pop\}executeonly def

Found in path(s):

* /

No license file was found, but licenses were detected in source scan.

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):


No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):


No license file was found, but licenses were detected in source scan.

)print dup( )cvs print

Found in path(s):

* \{cvx $error/errorname get\(Error

1.2507 sudo 1.9.5-3.el7

1.2507.1 Available under license:

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frylinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
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Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
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Slemko, Marc
Smith, Andy
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Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
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Toft, Martin
Torek, Chris
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Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
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Nikoli, Miroslav
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Qun, Trn Ngc
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Sendn, Abel
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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgq9Frj/CIrIRamuJAKCFgi4W0UOH8IUn+SV6PBHRF3BnLgCcDqqCZokttk0bTHfwaa5TtxQbScw=
=N/w/
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Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAQBQIJBbt4tA4o7EMHjBmtgF91HDCtH/2nQDPuPztWFrBifnEdLdJlt
RUkfdJzAPzALD7ttD7ucdR/1RDodmz4VIF2+1bKeBYQquZXifXleEghz+tKrK3
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FNWKpzaeX+SQgMak6husuatX1f6EsVkb6lakwEgl6+Xk+HYWy23ZQ8BKQRLKOZTw=
=gAqN
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Version: GnuPG v1.4.3 (GNU/Linux)
iD8DBQFFoniQVhlFus9dGQRAmJmA5y1loohhVQIICsparvjHMQuwqwCgiZFY
LBDVaad1bJ1v1EHY901kPcg=
=6rqm
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Version: GnuPG v1.4.1 (Darwin)
iD8DBQFD37/4dL6IZr4c+6kRAtsIAlJ41tfd3lj4OM6siMifjT0dYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
=8WW7
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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFET1ZxHR/ESK2w6H8RAbpOAJ9c1eooNnN2oN59WZVitJExGJjUvKgCfaKji6etDJ6AUj0jTu59hUsWMQ=
=HmqH
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Schedule A

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<thead>
<tr>
<th>Name</th>
<th>Date added</th>
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<tbody>
<tr>
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<td>12 September 2006</td>
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Date: 27 June 2008
Please sign: David Jencks

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Version: GnuPG v1.4.7 (Darwin)

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Hash: SHA1

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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Date: 10th March 2006
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Version: GnuPG v1.4.2.1 (GNU/Linux)
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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5hdry6ZjXRcUhtQEyNz2F/T4=
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* /opt/cola/permits/1152477823_1618244989.88/0/groovy-xml-2-3-7-sources-2-jar/groovy/util/slurpersupport/FilteredNodeChildren.java

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  * /opt/cola/permits/1152477823_1618244989.88/0/groovy-xml-2-3-7-sources-2-jar/groovy/xml/util/slurpersupport/NodeChild.java
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* /opt/cola/permits/1152477823_1618244989.88/0/groovy-xml-2-3-7-sources-2-jar/groovy/util/slurpersupport/NodeIterator.java
* /opt/cola/permits/1152477823_1618244989.88/0/groovy-xml-2-3-7-sources-2-jar/groovy/util/slurpersupport/Attributes.java

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1.2537 python-backports-ssl-match-hostname 3.5.0.1-1.ph3

1.2538 initscripts 9.49.53-1.el7

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  jar/org/springframework/context/support/ClassPathXmlApplicationContext.java

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* /opt/cola/permits/1143552357_1615694878.24/0/spring-context-3-2-8-release-sources-2-
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  jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
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  jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /opt/cola/permits/1143552357_1615694878.24/0/spring-context-3-2-8-release-sources-2-
  jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.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.
 *
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */
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  jar/com/google/common/base/SmallCharMatcher.java

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  jar/com/google/common/collect/GenericMapMaker.java
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  jar/com/google/common/base/FunctionalEquivalence.java
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  jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/util/concurrent/TrustedCallQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/util/concurrent/ListenerCallQueue.java
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jar/com/google/common/hash/AbstractHasher.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedMultisets.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedMultiset.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/StandardSystemProperty.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingNavigableMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableEnumMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteSink.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/html/package-info.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/Constraints.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Maps.java
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  jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/escape/Escaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/thirdparty/publicsuffix/
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/StandardTable.java
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* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1.jar/org/springframework/security/remoting/dns/DnsResolver.java
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1.jar/org/springframework/security/remoting/dns/JndiDnsResolver.java
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1.jar/org/springframework/security/remoting/dns/DnsEntryNotFoundException.java

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*/

/**
* Reviews the <code>Object</code> returned from a secure object invocation,
* being able to modify the <code>Object</code> or throw an [ @link
* AccessDeniedException].
* <p>
Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or Collection elements.

<p>
Special consideration should be given to using an AfterInvocationManager on bean methods that modify a database. Typically an AfterInvocationManager is used with read-only methods, such as public DomainObject getByName(id). If used with methods that modify a database, a transaction manager should be used to ensure any AccessDeniedException will cause a rollback of the changes made by the transaction.
</p>

@author Ben Alex

/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.
* 
* @author Alan Stewart
*/

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*/
/**
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* 
* @author Alan Stewart
*/

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*/opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1-jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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  jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1-
  jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1-
  jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1-
  jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1-
  jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java

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/**
* @param authentication represents the user in question. Should not be null.
* @param targetDomainObject the domain object for which permissions should be checked. May be null
* in which case implementations should return false, as the null condition can be checked explicitly
* in the expression.
* @param permission a representation of the permission object as supplied by the expression system. Not null.
* @return true if the permission is granted, false otherwise
*/

Found in path(s):
* /opt/cola/permits/1096651154_1601858931.48/0/spring-security-core-3-0-7-release-sources-1-
  jar/org/springframework/security/access/PermissionEvaluator.java

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/**
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
* See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
*<p>
* For internal use only.
*/
/**
 * A token issued by [TokenService](https://docs.spring.io/spring-security/reference/).
 *
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that they can serve as identifying a unique user session. Implementations of [TokenService](https://docs.spring.io/spring-security/reference/) are free to use encryption or encoding strategies of their choice. It is strongly recommended that keys are of sufficient length to balance safety against persistence cost. In relation to persistence cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 *
 * @author Ben Alex
 * @since 2.0.1
 */

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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
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
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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
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.2563 jetty-security 9.4.11.v20180605

1.2564 libcgroup 0.41 21.el7

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# canonicalize-lgpl.m4 serial 4

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AC_DEFUN([gl_CANONICALIZE_LGPL],
[  
dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ(canonicalize-lgpl)
  AC_DEFINE([realpath], [rpl_realpath],
    [Define to a replacement function name for realpath().])
  gl_PREREQ_CANONICALIZE_LGPL
fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[  
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[  
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
  AC_CHECK_FUNCS_ONCE(getcwd readlink)
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1.2588 commons-cli 1.4

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1.2607 geo-ip 1.5.0-11.el7

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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
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given we speak SSL. But, if we've been * told about an confidential port, and said port is not our port, then *
CONFIDENTIAL constraints, such as one SSL listener configured to require * client certs providing
CONFIDENTIAL, whereas another SSL listener not public boolean isConfidential(Request request) final int
confidentialPort=getConfidentialPort(); return confidentialPort==0||confidentialPort==request.getServerPort(); *
CONFIDENTIAL constraints, such as one SSL listener configured to require * client certs providing
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* /opt/cola/permits/1152322886_1618219379.08/0/spring-aspects-3-2-8-release-sources-2-
  jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
* /opt/cola/permits/1152322886_1618219379.08/0/spring-aspects-3-2-8-release-sources-2-
  jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
* /opt/cola/permits/1152322886_1618219379.08/0/spring-aspects-3-2-8-release-sources-2-
  jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj

1.2615 expat 2.1.0-11.el7

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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*
* M. Welsh, 6 July 1996
*
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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History
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After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -v %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
    ; CHECK-LABEL: PR41535:
    ; CHECK:     // %bb.0:
    ; CHECK-NEXT: ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT: mov v0.d[1], v0.d[0]
; CHECK-NEXT: ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:
; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:
; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: subq $32, %rsp
; CHECK-NEXT: .cfi_def_cfa_offset 48
; CHECK-NEXT: .cfi_offset %rbx, -16
; CHECK-NEXT: movaps %xmm1, {[-0-9]+}(%rip) # 16-byte Spill
; CHECK-NEXT: movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT: callq __gttf2
; CHECK-NEXT: movl %eax, %ebx
; CHECK-NEXT: callq __subtf3
; CHECK-NEXT: xorps %xmm0, %xmm0
; CHECK-NEXT: .LBB0_2:
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {  
; CHECK-LABEL: TestFabs:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {.*}(%rip), %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {  
; CHECK-LABEL: TestCopysign:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {.*}(%rip), %xmm1
; CHECK-NEXT: orps %xmm1, %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
    ; CHECK-LABEL: TestFneg:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  pushq %rax
    ; CHECK-NEXT:   .cfi_def_cfa_offset 16
    ; CHECK-NEXT:  movaps %xmm0, %xmm1
    ; CHECK-NEXT:  callq __multf3
    ; CHECK-NEXT:  xorps {{.*}}(%rip), %xmm0
    ; CHECK-NEXT:  popq %rax
    ; CHECK-NEXT:   .cfi_def_cfa_offset 8
    ; CHECK-NEXT:  retq
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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; RUN: opt %s -inline %s -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
call void @innerLarge()
ret void
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute()
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() { #0
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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RUN: opt -consthoist -S -o - %s | FileCheck %s


target triple = "i386musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.

; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]??]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %[[M6:const_mat[0-9]??]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?!]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?!]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?!]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?!]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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; NOTE: Assertions have been autogenerate by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attrubtes.

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %arg, (8 x i64)* readonly %arg1) #0 {
    ; CHECK-LABEL: define (\[^\(@\]+\)]@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; CHECK-SAME: (8 x i64)* (\[^\(@\]+\]) (8 x i64)\[[ARG1:.*]\] (8 x i64)* (\[^\(@\]+\])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store 8 x i64* [ARG1_VAL], 8 x i64* [ARG]
    ; CHECK-NEXT: ret void
    ;
    bb:
    %tmp = load 8 x i64*, 8 x i64* %arg
    store 8 x i64* %tmp, 8 x i64* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %arg) #0 {
    ; CHECK-LABEL: define (\[^\(@\]+\)]@avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; CHECK-SAME: (8 x i64)* (\[^\(@\]+\])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca 8 x i64, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca 8 x i64, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast 8 x i64* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: [[TMP:VAL:.*]] = load 8 x i64*, 8 x i64* [[TMP]]
    ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64*, [[TMP2]], 8 x i64* [[TMP:VAL]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load 8 x i64*, 8 x i64* [[TMP2]], align 32
    ; CHECK-NEXT: store 8 x i64* [[TMP4]], 8 x i64* [[ARG]], align 2
    ; CHECK-NEXT: ret void
    ;
    bb:
    %tmp = allocas 8 x i64, align 32
    %tmp2 = allocas 8 x i64, align 32
    %tmp3 = bitcast 8 x i64* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64*, %tmp2, 8 x i64* %tmp)
    %tmp4 = load 8 x i64*, 8 x i64* %tmp2, align 32
    store 8 x i64* %tmp4, 8 x i64* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg, (8 x i64)* readonly %arg1) #1 {
    ; CHECK-LABEL: define (\[^\(@\]+\)]@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (8 x i64)* (\[^\(@\]+\]) (8 x i64)* (\[^\(@\]+\])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store 8 x i64* [ARG1:VAL], 8 x i64* [ARG]
    ; CHECK-NEXT: ret void
    ;
    bb:
    %tmp = allocas 8 x i64, align 32
    %tmp2 = allocas 8 x i64, align 32
    %tmp3 = bitcast 8 x i64* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64*, %tmp2, 8 x i64* %tmp)
    %tmp4 = load 8 x i64*, 8 x i64* %tmp2, align 32
    store 8 x i64* %tmp4, 8 x i64* %arg, align 2
    ret void
}

; This should promote
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {  
bb:
%tmp = alloca <8 x i64>, align 32  
%tmp2 = alloca <8 x i64>, align 32  
%tmp3 = bitcast <8 x i64>* %tmp to i8*  
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void
}  

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {  
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1  
store <8 x i64> %tmp, <8 x i64>* %arg  
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], 0, 32, false)
; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* %arg, align 2
; CHECK-NEXT:  ret void
}

This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:  store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:

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define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %arg to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void

    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    ; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
    ; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT: ret void

    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define ({{[^@]+}}) @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define ({{[^@]+}}) @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT: ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define ({{[^@]+}}) @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define ({{[^@]+}}) @scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:%.*]]))
; CHECK-NEXT:   [[A:%.*]] = alloca i32
; CHECK-NEXT:   store i32 1, i32* [[A]]
; CHECK-NEXT:   [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:   [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:   [[C:%.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:   ret i32 [[C]]

; %A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
ret i32 %C
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa32(%rdi), %ymm1
; CHECK-NEXT:  vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0

define void @avg_v64i8_256(%a, %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT:  vpavgb (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT:  vpavgb 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT:  vmovdqu %ymm1, (%rax)
  ; CHECK-NEXT:  vmovdqu %ymm0, (%rax)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %1 = load <64 x i8>, %a
  %2 = load <64 x i8>, %b
  %3 = zext <64 x i8> %1 to <64 x i32>
  %4 = zext <64 x i8> %2 to <64 x i32>
  %5 = add nuw nsw <64 x i32> %3, %4
  %6 = add nuw nsw <64 x i32> %5, %4
  %7 = lshr <64 x i32> %6, %5
  %8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, %a, %b undef, align 4
ret void
}

define void @avg_v64i8_512(%a, %b) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: avg_v64i8_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm0
  ; CHECK-NEXT:  vpavgb (%rdi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqu64 %zmm0, (%rax)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %1 = load <64 x i8>, %a
  %2 = load <64 x i8>, %b
  %3 = add nuw nsw <64 x i32> %1, %2
  %4 = add nuw nsw <64 x i32> %3, %4
  %5 = lshr <64 x i32> %4, %4
  %6 = trunc <64 x i32> %5 to <64 x i8>
store <64 x i8> %6, %a, %b undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: psubus_64i8_max_256:  
    ; CHECK:     # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa32(%rdi), %ymm1  
    ; CHECK-NEXT: vpsubusb32(%rsi), %ymm1, %ymm1  
    ; CHECK-NEXT: vpsubusb(%rsi), %ymm0, %ymm0  
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %x = load <64 x i8>, <64 x i8>* %xptr  
    %y = load <64 x i8>, <64 x i8>* %yptr  
    %cmp = icmp ult <64 x i8> %x, %y  
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
    %res = sub <64 x i8> %max, %y  
    store <64 x i8> %res, <64 x i8>* %zptr  
    ret void  
}  
  
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: psubus_64i8_max_512:  
    ; CHECK:     # %bb.0:  
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
    ; CHECK-NEXT: vpsubusb64(%rsi), %zmm0, %zmm0  
    ; CHECK-NEXT: vpsubusb64(%rsi), %zmm0, %zmm0  
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %A = load <32 x i16>, <32 x i16>* %APtr  
    %B = load <32 x i16>, <32 x i16>* %BPtr  
    %a = sext <32 x i16> %A to <32 x i32>  
    %b = sext <32 x i16> %B to <32 x i32>  
    %m = mul nsw <32 x i32> %a, %b  
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
    %ret = add <16 x i32> %odd, %even  
    store <16 x i32> %ret, <16 x i32>* %CPtr  
    ret void  
}
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: _Z9test_charPcS_i_256:
  ; CHECK:   # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB8_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm3
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm4
  ; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm5
  ; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
  ; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm3
  ; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm2
  ; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
  ; CHECK-NEXT: addq $32, %rcx
  ; CHECK-NEXT: cmpq %rcx, %rax
  ; CHECK-NEXT: jne .LBB8_1
  ; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
  ; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
  ; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT: vpaddd %ymm1, %xmm0, %xmm0
  ; CHECK-NEXT: vpaddd %ymm0, %xmm0, %xmm1
  ; CHECK-NEXT: vpaddd %ymm1, %xmm0, %xmm0
  ; CHECK-NEXT: vmovd %xmm0, %eax
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %0, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %11, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:    # %bb.0: # %entry
    ; CHECK-NEXT: movl %edx, %eax
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: xorl %ecx, %ecx
    ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpadd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body
}

vector.body:

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined 
ret i32 %13 

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK: 
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB11_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    addq $4, %rax
    ; CHECK-NEXT:    jne .LBB11_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpaddd %xmm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body
}

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*

undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
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define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" { 
; CHECK-LABEL: sbto16f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovmd %k1, %ymm0
    ; CHECK-NEXT:  vpsrlq $31, %ymm0, %ymmm0
    ; CHECK-NEXT:  vcvtq2pd %xmm0, %ymmm0
    ; CHECK-NEXT:  vextracti128 $1, %ymmm0, %xmm0
    ; CHECK-NEXT:  vcvtq2pd %xmm0, %ymmm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymmm2
    ; CHECK-NEXT:  vpsrlq $31, %ymmm2, %ymmm2
    ; CHECK-NEXT:  vcvtq2pd %xmm0, %ymmm3
    ; CHECK-NEXT:  vextracti128 $1, %ymmm2, %xmm2
    ; CHECK-NEXT:  vcvtq2pd %xmm2, %ymmm2
    ; CHECK-NEXT:  vmovaps %ymmm2, 32(%rdi)
    ; CHECK-NEXT:  vmovaps %xmm2, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitialzer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovmd %k0, %zmm0
    ; CHECK-NEXT:  vpsrlq $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
    ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitialzer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vpmullw %ymm5, %ymm5

; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm3 = ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm1 = ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpmullw %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm2 = ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmmull %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
; ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
; ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
; ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm3 =
; ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
; ymm0[0,2,4,6,8,10,12,14,16,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT: vperm2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
; ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
; ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vperm2b %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm2 =
; ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm0 =
; ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vperm2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
open source used in onprem 2.1

```c
void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  CHECK-AVX512-NEXT:  vmovdqa64 (%rdi), %zmm0
  CHECK-AVX512-NEXT:  vmovdqa64 (%rsi), %zmm1
  CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4,
    2,42,43,44,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4,
    2,42,43,44,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
  CHECK-AVX512-NEXT:  vpmullw %zmm0, %zmm0, %zmm0
  CHECK-AVX512-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
  CHECK-AVX512-NEXT:  vmovdqa64 (%rdx)
  CHECK-AVX512-NEXT:  vzeroupper
  CHECK-AVX512-NEXT:  retq

  CHECK-VBMI-NEXT:  vmovdqa64 (%rdi), %zmm0
  CHECK-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
  CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
    zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
    6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,51,51,52,52,53,53,54,54,55,55]
  CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
    zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
    6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,51,51,52,52,53,53,54,54,55,55]
  CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
  CHECK-VBMI-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
  CHECK-VBMI-NEXT:  vmovdqa64 (%rdx)
  CHECK-VBMI-NEXT:  vzerouupper
  CHECK-VBMI-NEXT:  retq
}
```
; CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,  
46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124,126]  
; CHECK-VBMI-NEXT:  vpcmib2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void

}; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:  vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
; CHECK-NEXT:  vpmovqd %ymm1, %xmm1
; CHECK-NEXT:  vpmovqd %ymm2, %xmm2
; CHECK-NEXT:  vpmovqd %ymm3, %xmm3
; CHECK-NEXT:  vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
; CHECK-NEXT:  vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i64_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
    ; CHECK-NEXT:  vpmovqb %ymm3, %xmm3
    ; CHECK-NEXT:  vpmovq db %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovq db %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovq db %ymm0, %xmm0
    ; CHECK-NEXT:  vpunpckldq {{.*#*}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
    ; CHECK-NEXT:  vpmovqdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpunpckldq {{.*#*}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpunpckldq {{.*#*}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i32>, <16 x i32>* %x
    %b = trunc <16 x i32> %a to <16 x i8>
    ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmovqb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovqb %ymm0, %xmm0
    ; CHECK-NEXT:  vpunpckldq {{.*#*}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i8>
    ret <8 x i8> %b
}
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT: vperm2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vperm2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpckuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq [%.*#+] %ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vperm2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq

%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsraq $48, 32(%rdi), %ymm0
; CHECK-NEXT:    vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT:    vpmovqd %ymm1, %xmm1
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vinserti128 $1, %xmm0, %ymm1, %ymm0
; CHECK-NEXT:    retq

%a = load <8 x i64>, <8 x i64>* %x
%b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa [%.*#+] %ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-NEXT:    vperm2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq

%a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>

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ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vpsraw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vsraw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpacksswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
:
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq
%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>  
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}

define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm1 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT: vshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzwxq {{.*#+}} ymm2 = xmm2[0],zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero
; CHECK-NEXT: vextacti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzvxq {{.*#+}} ymm3 = xmm3[0],zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero
; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm1 = xmm1[0],zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero
; CHECK-NEXT: vpmovzvxbq {{.*#+}} ymm0 = xmm0[0],zero,zero,zero,xmm0[1],zero,zero,zero,xmm0[2],zero,zero,zero,zero,xmm0[3],zero,zero,zero,zero
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
define void @sEXT_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: sext_v16i8_v16i64:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:    vpmovsxbw %xmm0, %ymm0  
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
    ; CHECK-NEXT:    vpmovsxwq %xmm1, %ymm1  
    ; CHECK-NEXT:    vextracti128 %s1, %ymm0, %xmm2  
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]  
    ; CHECK-NEXT:    vpmovsxwq %xmm3, %ymm3  
    ; CHECK-NEXT:    vpmovsxwq %xmm0, %ymm0  
    ; CHECK-NEXT:    vpmovsxwq %xmm2, %ymm2  
    ; CHECK-NEXT:    vmovdqa %ymm2, 64(%rdi)  
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)  
    ; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)  
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdi)  
    ; CHECK-NEXT:    vzeroupper  
    ; CHECK-NEXT:    retq  
    %a = sext <16 x i8> %x to <16 x i64>  
    store <16 x i64> %a, <16 x i64>* %y  
    ret void  
}  
  
define void @vSELECT_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: vselect_split_v8i16_setcc:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2  
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3  
    ; CHECK-NEXT:    vpmpeqw %xmm1, %xmm0, %k1  
    ; CHECK-NEXT:    kshiftrb $4, %k1, %k2  
    ; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 [%k2]  
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 [%k1]  
    ; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)  
    ; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)  
    ; CHECK-NEXT:    vzeroupper  
    ; CHECK-NEXT:    retq  
    %x = load <8 x i64>, <8 x i64>* %p  
    %y = load <8 x i64>, <8 x i64>* %q  
    %a = icmp eq <8 x i16> %s, %t  
    %b = select <8 x i16> %a, <8 x i64> %x, <8 x i64> %y  

store <8 x i64> %b, <8 x i64>* %r
ret void
}

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrb $4, %k1, %k2
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 [%k2]
; CHECK-NEXT: vmovdqa64 (4%rdi), %ymm2 [%k1]
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 [%k2]
; CHECK-NEXT: vmovdqa32 (4%rdi), %ymm2 [%k1]
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa %rsi, %ymm3
; CHECK-NEXT: vpmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 %rdi, %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 %rdi, %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %c
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
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```assembly
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a
    %d = icmp sgt <16 x i32> %c, zero initializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zero initializer
    %f = trunc <16 x i32> %e to <16 x i8>
    store <16 x i8> %f, <16 x i8>* %q
    ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: retq
    ret <64 x i1> %x
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_shuffle:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
    ; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
    ; CHECK-NEXT: kshiftrd $1, %k0, %k1
    ; CHECK-NEXT: movq $-3, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
    ; CHECK-NEXT: kshiftrq $62, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1
    ; CHECK-NEXT: movq $-5, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrd $3, %k0, %k2
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
    ; CHECK-NEXT: kshiftrq $61, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1
    ; CHECK-NEXT: movq $-9, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrd $2, %k0, %k2
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
```
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $53, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $10, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $12, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $50, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $15, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $17, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $47, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-131073, %rax # imm = 0xFFFFDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k2
; CHECK-NEXT:    vpptestmb %ymm0, %ymm0, %k1
; CHECK-NEXT:    kshiftrd $30, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k0, %k0
; CHECK-NEXT:    kshiftrq $32, %k0, %k0
; CHECK-NEXT:    korq %k0, %k2, %k0
; CHECK-NEXT:    movabsq $-4294967297, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $1, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $31, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8589934593, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $3, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $29, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $2, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $28, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $5, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $27, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-68719476737, %rax # imm = 0xFFFFFFFFEFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $4, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $26, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-35184372088833, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $12, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $18, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-70368744177665, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $15, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $17, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-140737488355329, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $14, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $16, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-281474976710657, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $17, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $15, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-562949953421313, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $16, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $14, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1125899906842625, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $19, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $13, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2251799813685249, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $18, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $18, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0

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; CHECK-NEXT:   kshiftrq $12, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $21, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $11, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $20, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $10, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $23, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $9, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $22, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $8, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $25, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $7, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-144115188075855873, %rax # imm = 0xFEDFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $24, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $6, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-28823037615171745, %rax # imm = 0xFBFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $27, %k1, %k2
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitialzer
  %shuf = shufflevector <64 x i1> %a, %b, <64 x i1> undef, <64 x i32> %shuf
  vmovdq %ymm1, (%rsi) [%k1]
  vmovdq %ymm0, 32(%rsi) [%k1]
  vzeroupper
  retq

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; CHECK-NEXT:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $5, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $26, %k2, %k2
; CHECK-NEXT:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $4, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $29, %k1, %k2
; CHECK-NEXT:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $3, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $28, %k1, %k2
; CHECK-NEXT:  kshiflq $62, %k2, %k2
; CHECK-NEXT:  kshiftrq $2, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $31, %k1, %k2
; CHECK-NEXT:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $30, %k1, %k1
; CHECK-NEXT:  kshiflq $1, %k0, %k0
; CHECK-NEXT:  kshiftrq $1, %k0, %k0
; CHECK-NEXT:  kshiflq $63, %k1, %k1
; CHECK-NEXT:  kshiftrq $31, %k2, %k2
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>* , i32 , <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: v64i1_inline_asm:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  kmovq [{.]%rip), %k0
 ; CHECK-NEXT:  #APP
 ; CHECK-NEXT:  #NO_APP
 ; CHECK-NEXT:  kmovq %k0, [{.]%rip)
 ; CHECK-NEXT:  movl -[[[0-9]+]](%rsp), %eax
 ; CHECK-NEXT:  retq
 %1 = alloca i32, align 4
 %2 = load i64, i64* @mem64_src, align 8
 %3 = call i64 asm ", k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
 store i64 %3, i64* @mem64_dst, align 8
 %4 = load i32, i32* %1, align 4
 ret i32 %4
}
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: cmp_v8i64_sext:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT:  vpcmpeqq 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT:  vpcmpeqq (%rdi), %ymm0, %ymm0
 ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
 ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
 %x = load <8 x i64>, <8 x i64>* %xptr
 %y = load <8 x i64>, <8 x i64>* %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = sext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, <8 x i64>* %zptr
 ret void
}
define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: cmp_v8i64_zext:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
 %x = load <8 x i64>, <8 x i64>* %xptr
 %y = load <8 x i64>, <8 x i64>* %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = sext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, <8 x i64>* %zptr
 ret void
}
define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" { 
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =
; CHECK-NEXT:  %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
; CHECK-NEXT:  %or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}
define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
 ; CHECK-LABEL: var_rotate_v32i8:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vpsllw $4, %ymm0, %ymm2
 ; CHECK-NEXT: vpsllw $4, %ymm0, %ymm3
 ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
 ; CHECK-NEXT: vpsllw $5, %ymm1, %ymm1
 ; CHECK-NEXT: vpsllw $2, %ymm0, %ymm2
 ; CHECK-NEXT: vpsllw $6, %ymm0, %ymm3
 ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
 ; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
 ; CHECK-NEXT: retq
 %b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8
 %shl = shl <32 x i8> %a, %b
 %lshr = lshr <32 x i8> %a, %b8
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
 ; CHECK-LABEL: splatvar_rotate_v32i8:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vpbroadcastb %xmm1, %xmm1
 ; CHECK-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
 ; CHECK-NEXT: vpmovzbq {{.*#+}} xmm2 =
 xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero,zero
 ; CHECK-NEXT: vpsllw %xmm2, %ymmm0, %ymmm3
 ; CHECK-NEXT: vmovdqa {{.*#++}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
 ; CHECK-NEXT: vpsllw %xmm1, %ymmm4, %ymmm1
 ; CHECK-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
 ; CHECK-NEXT: vpsllw %xmm2, %ymmm4, %ymmm2
 ; CHECK-NEXT: vpbroadcastb %ymmm2, %ymmm2
 ; CHECK-NEXT: vpmovzbq {{.*#++}} xmm1 =
 xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero
 ; CHECK-NEXT: vpsllw %ymm1, %ymm0, %ymm5
 ; CHECK-NEXT: vpand %ymm2, %ymm3, %ymm2
 ; CHECK-NEXT: vpsllw %ymm1, %ymmm4, %ymmm0
 ; CHECK-NEXT: vpsrlw $8, %ymmm0, %ymmm0
 ; CHECK-NEXT: vpbroadcastb %ymmm0, %ymmm0

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define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
  ; CHECK-AVX512-LABEL: constant_rotate_v32i8:
  ; CHECK-AVX512:       # %bb.0:
  ; CHECK-AVX512-NEXT: vpshllw $4, %ymm0, %ymm1
  ; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %ymm1, %ymm1
  ; CHECK-AVX512-NEXT: vbroadcasti128 {{.*#+}} ymm2 =
  [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]  
  ; CHECK-AVX512-NEXT: # ymm2 = mem[0,1,0,1]
  ; CHECK-AVX512-NEXT: vpbroadcastvb %ymm2, %ymm1, %ymm0, %ymm1
  ; CHECK-AVX512-NEXT: vpshllw $2, %ymm1, %ymm3
  ; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %ymm3, %ymm3
  ; CHECK-AVX512-NEXT: vpadddb %ymm2, %ymm2, %ymm2
  ; CHECK-AVX512-NEXT: vpbroadcastvb %ymm2, %ymm3, %ymm1, %ymm1
  ; CHECK-AVX512-NEXT: vpadddb %ymm1, %ymm1, %ymm1
  ; CHECK-AVX512-NEXT: vpadddb %ymm2, %ymm2, %ymm2
  ; CHECK-AVX512-NEXT: vpbroadcastvb %ymm2, %ymm3, %ymm1, %ymm1
  ; CHECK-AVX512-NEXT: vpshllvw {{.*}}(%rip), %ymm1, %ymm0
  ; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm0 =
  ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13 ] ,ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ymm m2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[ 31]
  ; CHECK-AVX512-NEXT: vpshllw {{.*}}(%rip), %ymm3, %ymm3
  ; CHECK-AVX512-NEXT: vpshrlw $8, %ymm3, %ymm3
  ; CHECK-AVX512-NEXT: vpunpcklwb {{.*#+}} ymm0 =
  ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[ 5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[ 19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
  ; CHECK-AVX512-NEXT: vpshllw {{.*}}(%rip), %ymm0, %ymm0
  ; CHECK-AVX512-NEXT: vpshrlw $8, %ymm0, %ymm0
  ; CHECK-AVX512-NEXT: vpunpckuswb %ymm3, %ymm3, %ymm0
  ; CHECK-AVX512-NEXT: vpor %ymm0, %ymm1, %ymm0
  ; CHECK-AVX512-NEXT: retq
  ;
  ; CHECK-VBMI-LABEL: constant_rotate_v32i8:
  ; CHECK-VBMI:       # %bb.0:
  ; CHECK-VBMI-NEXT: vpshllw $4, %ymm0, %ymm1
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: vpand {{.*}}(%rip), %ymm0, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55,
i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8
55>
%lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33,
i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8
33>
%or = or <32 x i8> %lmask, %rmask
ret <32 x i8> %or
}
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol

LINK_COMPONENTS
Support
)

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
    br label %while.body
while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]
sw.bb.i: ; preds = %while.body
    unreachable
sw.bb3.i: ; preds = %while.body
    unreachable
exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]
sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable
sw.bb3.i20: ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable
exit.2: ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body
while.end: ; preds = %entry
    ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    
    ; NOT_TUNIT_NPM-LABEL: define
    {[^@]+} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG: %.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1: %.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    NOT_TUNIT_NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    NOT_TUNIT_NPM-NEXT:    store <8 x i64> [[ARG1_PRIV]], <8 x i64>* [[ARG]], align 64
    NOT_TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
    NOT_TUNIT_NPM-NEXT:    ret void

    ; IS__TUNIT_NPM-LABEL: define
    {[^@]+} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG: %.*]], <8 x i64> [[TMP0: %.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    IS__TUNIT_NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    IS__TUNIT_NPM-NEXT:    store <8 x i64> [[ARG1_PRIV]], <8 x i64>* [[ARG]], align 64
    IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
    IS__TUNIT_NPM-NEXT:    ret void

    bb:
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
    ; IS__TUNIT_OPM-LABEL: define [([^@]+)] @avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT:   [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:   [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:   [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__TUNIT_OPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_OPM-NEXT:   call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
    ; IS__TUNIT_OPM-NEXT:   [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__TUNIT_OPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__TUNIT_OPM-NEXT:   ret void
    ; IS__TUNIT_NPM-LABEL: define [([^@]+)] @avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT:   [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT:   [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT:   [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__TUNIT_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_NPM-NEXT:   call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nonnull readonly align 64 dereferenceable(64) [[TMP0]])
    ; IS__TUNIT_NPM-NEXT:   [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__TUNIT_NPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__TUNIT_NPM-NEXT:   ret void
    ; IS__CGSCC_OPM-LABEL: define [([^@]+)] @avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
    ; IS__CGSCC_OPM-NEXT: bb:
    ; IS__CGSCC_OPM-NEXT:   [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT:   [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT:   [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__CGSCC_OPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__CGSCC_OPM-NEXT:   call fastcc void
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; NOT_TUNIT_NPM-LABEL: define
  { {[@]+]} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nfree nonnull writeonly align 64 dereferenceable(64)
  [[ARG:%.*]], <8 x i64>* nocapture nfree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  ; NOT_TUNIT_NPM-NEXT: bb:
  ; NOT_TUNIT_NPM-NEXT: [][TMP:%.*] = load <8 x i64>, <8 x i64>* [ARG1], align 64
  ; NOT_TUNIT_NPM-NEXT: store <8 x i64> [][TMP], <8 x i64>* [ARG], align 64
  ; NOT_TUNIT_NPM-NEXT: ret void
  ;
  ; IS__TUNIT_NPM-LABEL: define
  { {[@]+]} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64)
  [[ARG:%.*]], <8 x i64> [TMP0:%.*])
  ; IS__TUNIT_NPM-NEXT: bb:
  ; IS__TUNIT_NPM-NEXT: [ARG1_PRIV:%.*] = alloca <8 x i64>, align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [TMP0], <8 x i64>* [ARG1_PRIV], align 64
  ; IS__TUNIT_NPM-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [ARG1_PRIV], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [TMP], <8 x i64>* [ARG], align 64
  ; IS__TUNIT_NPM-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  ;
  ; IS__TUNIT_OPM-LABEL: define { {[@]+]} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_OPM-NEXT: bb:
  ; IS__TUNIT_OPM-NEXT: [ARG1_PRIV:%.*] = alloca <8 x i64>, align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [TMP0], <8 x i64>* [ARG1_PRIV], align 64
  ; IS__TUNIT_OPM-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [ARG1_PRIV], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [TMP], <8 x i64>* [ARG], align 64
  ; IS__TUNIT_OPM-NEXT: ret void
  ;
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_OPM-NEXT: call fastcc void @call_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS__TUNIT_OPM-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [TMP4], <8 x i64>* [ARG], align 2
  ; IS__TUNIT_OPM-NEXT: ret void
  ;
  ; IS__TUNIT_NPM-LABEL: define { {[@]+]} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [ARG:%.*])
; IS__UNIT_NPM-NEXT: bb:
; IS__UNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__UNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [ARG], align 2
; IS__UNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [ARG], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [ARG], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; NOT_TUNIT_NPM-LABEL: define
  ({{[@]+}}) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  NOT_TUNIT_NPM-SAME: (<8 i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [ARG:%.*]], <8 i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  NOT_TUNIT_NPM-NEXT: bb:
  NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 i64>, <8 x i64>* [[ARG1]], align 64
  NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  NOT_TUNIT_NPM-NEXT: ret void
  ;
  ; IS__TUNIT_NPM-LABEL: define
  ({{[@]+}}) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 i64> [[TMP0:%.*]])
  ; IS__TUNIT_NPM-NEXT: bb:
  ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
  ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 i64>, <8 x i64>* [[ARG1_PRIV]], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  ; IS__TUNIT_NPM-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ;
  ; IS__TUNIT_OPM-LABEL: define ({{[@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_OPM-NEXT: bb:
  ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
}
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void
@calleevx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull
readonly align 64 dereferenceable(64) [[TMP3]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP3]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define {{\[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void
@calleevx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {{\[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_OPM-NEXT:  call fastcc void
@calleevx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture
nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32

; IS__CGSCC_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:   call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:   ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
;
; NOT_TUNIT_NPM-LABEL: define
| {{[@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nокapture nofree nonnull writeonly align 64 dereferenceable(64)
| [[ARG:%%.*]], <8 x i64>* nокapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:   store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:   ret void
;
; IS__TUNIT_NPM-LABEL: define
| {{[@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nofree nofree nonnull writeonly align 64 dereferenceable(64)
| [[ARG:%%.*]], <8 x i64>* noalias nofree nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT:   store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:   ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_OPM-NEXT: bb:
  ; IS__TUNIT_OPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS__TUNIT_OPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_OPM-NEXT: ret void
  ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512 Legal256_prefer256_call_avx512_Leagal512_prefer256
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_NPM-NEXT: bb:
  ; IS__TUNIT_NPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_NPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_NPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS__TUNIT_NPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_NPM-NEXT: ret void
  ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
  ; IS__CGSCC_OPM-NEXT: bb:
  ; IS__CGSCC_OPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME:    (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:    bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME:    (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT:    bb:
; NOT_TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:    ret void

; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {  
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1  
    store <8 x i64> %tmp, <8 x i64>* %arg  
    ret void 
}
This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx512_legal512_prefer256(\<8 x i64\>* %arg, \<8 x i64\>* readonly %arg1) #3 {
  
  
  NOT_TUNIT_NPM-LABEL: define
%tmp = load <8 x i64>, <8 x i64>* %arg1, align 32
store <8 x i64> %tmp, <8 x i64>* %arg, align 2
ret void

This should promote

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {

;

; NOT_TUNIT_NPM-LABEL: define
{[[@^@]+]} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define {[@^@]+} @callee_avx2_legal512_prefer256_call_avx2_leftal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {

;

; IS__TUNIT_OPM-LABEL: define {[@^@]+} @avx2_legal512_prefer256_call_avx2_leftal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nofree readonly align 64 dereferenceable(64)
dereferenceable(64) [[TMP]]

; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.
; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
    metadata !"fpexcept.strict")
    strictfp
  ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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==============================================================================
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512

Open Source Used In OnPrem2.1 2.2 24785
 define void @zext256() "min-legal-vector-width"="256" {
   %A = zext <8 x i16> undef to <8 x i64>
   %B = zext <8 x i32> undef to <8 x i64>
   %C = zext <16 x i8> undef to <16 x i32>
   %D = zext <16 x i16> undef to <16 x i32>
   %E = zext <32 x i8> undef to <32 x i16>
   ret void
}

define void @zext256() "min-legal-vector-width"="256" {
   %A = zext <8 x i16> undef to <8 x i64>
   %B = zext <8 x i32> undef to <8 x i64>
   %C = zext <16 x i8> undef to <16 x i32>
   %D = zext <16 x i16> undef to <16 x i32>
   %E = zext <32 x i8> undef to <32 x i16>
   ret void
}

define void @zext256() "min-legal-vector-width"="256" {
   %A = zext <8 x i16> undef to <8 x i64>
   %B = zext <8 x i32> undef to <8 x i64>
   %C = zext <16 x i8> undef to <16 x i32>
   %D = zext <16 x i16> undef to <16 x i32>
   %E = zext <32 x i8> undef to <32 x i16>
   ret void
}
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    AVX-LABEL: 'zext512'
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    AVX512VL256-LABEL: 'zext512'
    AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    AVX512VL512-LABEL: 'zext512'
    AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    SKX256-LABEL: 'zext512'
    SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; Open Source Used In OnPrem2.1 2.2 24787
define void @sext256() "min-legal-vector-width"="256" { 
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = sext <8 x i16> undef to <8 x i64>
    %B = sext <8 x i32> undef to <8 x i64>
    %C = sext <16 x i8> undef to <16 x i32>
    %D = sext <16 x i16> undef to <16 x i32>
    %E = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext256() "min-legal-vector-width"="256" { 
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = sext <8 x i16> undef to <8 x i64>
    %B = sext <8 x i32> undef to <8 x i64>
    %C = sext <16 x i8> undef to <16 x i32>
    %D = sext <16 x i16> undef to <16 x i32>
    %E = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
%
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
%
  ; SKX512-LABEL: 'sext256'
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
%
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>

ret void
}
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

define void @trunc256() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc256'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL256-LABEL: 'trunc256'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL512-LABEL: 'trunc256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
}
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXli1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V32i16 = zext <32 x i1> undef to <32 i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V64i16 = zext <64 x i1> undef to <64 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-LABEL: 'zext256_vXi1'
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x
%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'sext256_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
}
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i64 = sext <16 x i1> undef to <16 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i64 = sext <32 x i1> undef to <32 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i64 = sext <64 x i1> undef to <64 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i32 = sext <32 x i1> undef to <32 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i32 = sext <64 x i1> undef to <64 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V128i16 = sext <128 x i1> undef to <128 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V256i8 = sext <256 x i1> undef to <256 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V512i4 = sext <512 x i1> undef to <512 x i4>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V1024i2 = sext <1024 x i1> undef to <1024 x i2>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2048i1 = sext <2048 x i1> undef to <2048 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4096i0 = sext <4096 x i1> undef to <4096 x i0>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i32 = sext <32 x i1> undef to <32 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i32 = sext <64 x i1> undef to <64 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V128i16 = sext <128 x i1> undef to <128 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V256i8 = sext <256 x i1> undef to <256 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V512i4 = sext <512 x i1> undef to <512 x i4>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V1024i2 = sext <1024 x i1> undef to <1024 x i2>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2048i1 = sext <2048 x i1> undef to <2048 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4096i0 = sext <4096 x i1> undef to <4096 x i0>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i32 = sext <32 x i1> undef to <32 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i32 = sext <64 x i1> undef to <64 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V128i16 = sext <128 x i1> undef to <128 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V256i8 = sext <256 x i1> undef to <256 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V512i4 = sext <512 x i1> undef to <512 x i4>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V1024i2 = sext <1024 x i1> undef to <1024 x i2>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2048i1 = sext <2048 x i1> undef to <2048 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4096i0 = sext <4096 x i1> undef to <4096 x i0>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>
%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}

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1.2627 libjpeg 6b

1.2627.1 Notifications :
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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.* Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpegl" and "djpegl", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPPLUS 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 PBMPPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
=================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don’t use a proprietary file format!

**TO DO**

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, “poor man's variable quantization”, and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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**1.2628 libcap 2.22 9.el7**

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DMIDecode Python Extension Module shadows the DMIDecode utility

DMIDecode Python Extension Module

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.
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1.2643 libdnet 1.12

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1.2645 avalon-framework 4.1.3

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* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/NativeCache.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/NativeLogger.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/NativeReadOptions.java
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  jar/org/fusesource/leveldbjni/internal/NativeIterator.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
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  jar/org/fusesource/leveldbjni/internal/NativeSnapshot.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/NativeDB.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
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  jar/org/fusesource/leveldbjni/internal/NativeSlice.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/NativeBuffer.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/JniDBIterator.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/internal/NativeCompressionType.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-
  jar/org/fusesource/leveldbjni/NativeWriteBatch.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni/NativeDBFactory.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni/NativeRange.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni/NativeWriteBatch.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni/NativeDB.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni/NativeObject.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni/NativeSnapshot.java

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* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-jar/org/fusesource/leveldbjni/internal/JniDB.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-jar/org/fusesource/leveldbjni/internal/NativeStatus.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-jar/org/fusesource/leveldbjni/internal/NativeOptions.java
* /opt/cola/permits/1132244367_1613132124.62/0/leveldbjni-1-8-sources-2-jar/org/fusesource/leveldbjni/internal/NativeStdString.java

1.2647 libbytesize 1.2 1.el7

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1.2650 libdevmapper 1.02.146-4.el7

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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2-
jar/org/bson/codecs/UuidCodecHelper.java
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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2-
jar/org/bson/BsonUndefined.java
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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2-jar/com/mongodb/connection/CommandMessage.java
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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2-jar/com/mongodb/AcknowledgedBulkWriteResult.java
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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2.jar/com/mongodb/binding/AsyncReadBinding.java
* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2.jar/com/mongodb/connection/netty/NettyStreamFactory.java
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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2.jar/org/bson/types/BSONTimestamp.java

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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2-jar/org/bson/codecs/ValueCodecProvider.java
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* /opt/cola/permits/1152321523_1618219322.75/0/mongo-java-driver-3-0-3-sources-2-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
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/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
*
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
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1.2656 perl-newt 1.08 36.el7

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3.0.5.RELEASE

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*/
/**
* used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Element Declarations Consistent.
*/

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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/PSVIElementNSImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xml/serialize/TextSerializer.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/SecuritySupport.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/EntityImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLString.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
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*/
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>

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* method.
* @param mode  The `<code>mode</code>` argument is either
* `<code>MODE_SYNCHRONOUS</code>` or `<code>MODEASYNCHRONOUS</code>`, if
* `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the
* `<code>LSParser</code>` that is created will operate in synchronous
* mode, if it's `<code>MODEASYNCHRONOUS</code>` then the
* `<code>LSParser</code>` that is created will operate in asynchronous
* mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a `<code>Document</code>` using the
* newly created `<code>LSParser</code>`. Note that no lexical checking
* is done on the absolute URI. In order to create a
* `<code>LSParser</code>` for any kind of schema types (i.e. the
* `LSParser` will be free to use any schema found), use the value
* `<code>null</code>`.

  * , applications must use the value
  * `<code>http://www.w3.org/2001/XMLSchema</code>`.
  * For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
  * applications must use the value
  * `<code>http://www.w3.org/TR/REC-xml</code>`. Other Schema languages
  * are outside the scope of the W3C and therefore should recommend an
  * absolute URI in order to use this method.
* @return  The newly created `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument.

  * <p>Note:</p> By default, the newly created `<code>LSParser</code>`
  * does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
  * the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>"
  * configuration parameter is `<code>null</code>`. However, implementations
  * may provide a default error handler at creation time. In that case,
  * the initial value of the `<code>error-handler</code>` configuration
  * parameter on the new created `<code>LSParser</code>` contains a
  * reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-o-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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  jar/org/springframework/orm/jdo/PersistenceManagerFactoryUtils.java
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  jar/org/springframework/orm/jpa/AbstractEntityManagerFactoryBean.java
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/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * <code>createEntityManager</code> call (may be <code>null</code>)
* @param entityManagerInterfaces the interfaces to be implemented by the
* EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
* */

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* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2-
* jar/org/springframework/orm/hibernate3/HibernateInterceptor.java
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* jar/org/springframework/orm/hibernate3/LocalJtaDataSourceConnectionProvider.java
* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2-
* jar/org/springframework/orm/jpa/DefaultJpaDialect.java
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* jar/org/springframework/orm/jpa/PersistenceManagerHolder.java
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* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2.jar/org/springframework/orm/jpa/JpaAccessor.java
* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2.jar/org/springframework/orm/jpa/LocalContainerEntityManagerFactoryBean.java
* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2.jar/org/springframework/orm/hibernate3/LocalDataSourceConnectionProvider.java
* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2.jar/org/springframework/orm/hibernate3/support/OpenSessionInViewFilter.java
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* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2-
jar/org/springframework/orm/jdo/JdoDialect.java

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* /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2-
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 * /opt/cola/permits/1150871818_1617712731.89/0/spring-orm-3-0-7-release-sources-2-jar/org/jdo/JdoSystemException.java
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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.
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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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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>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode index level 2
>2byte5512 characters, Unicode index level 2 index
>3byte68x%d

# PC Screen (console) Fonts - psf2 header

0 lelong 0x864ab572 psf2 screen font data
>12 lelong 1 256x%d glyphs
>28 lelong 8x%d

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1.2684 terracotta-toolkit-{$toolkit-api-version}-impl 1.6

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* /opt/cola/permits/1125786839_1612761864.39/0/plexus-classworlds-2-5-2-sources-3.jar/org/codehaus/classworlds/ClassWorldReverseAdapter.java
* /opt/cola/permits/1125786839_1612761864.39/0/plexus-classworlds-2-5-2-sources-3.jar/org/codehaus/classworlds/BytesURLConnection.java

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/*

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Found in path(s):
* /opt/cola/permits/1125786839_1612761864.39/0/plexus-classworlds-2-5-2-sources-3-
  jar/org/codehaus/classworlds/DuplicateRealmException.java
1.2693 ding-libs 0.1.5-32.el7

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1.2698 xmlschema 1.3.2

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     */

package org.apache.ws.commons.schema;

/**
 * Class for simple types and complex types with a simple content model.
 * Represents the World Wide Web Consortium (W3C) simpleContent element.
 */

public class XmlSchemaSimpleContent extends XmlSchemaContentModel {

    /**
     * Creates new XmlSchemaSimpleContent
     */
    public XmlSchemaSimpleContent() {
    }

    /* One of XmlSchemaSimpleContentRestriction or XmlSchemaSimpleContentExtension. */
    XmlSchemaContent content;

    public XmlSchemaContent getContent() {
        return this.content;
    }

    public void setContent(XmlSchemaContent content) {
}
this.content = content;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    if (!prefix.equals("") && prefix.indexOf(":" == -1) {
        prefix += ";
    }
    return xml;
}

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 */

package org.apache.ws.commons.schema;

/**
 * Class defines a simple type that determines the information and
 * constraints for the values of attributes or elements with text-only
 * content. Represents the World Wide Web Consortium (W3C) simpleType element.
 */

public class XmlSchemaSimpleType extends XmlSchemaType {

    XmlSchemaSimpleTypeContent content;

    /**
     * Creates new XmlSchemaSimpleType
     */
    public XmlSchemaSimpleType(XmlSchema schema) {
        super(schema);
public XmlSchemaSimpleTypeContent getContent() {
    return content;
}

public void setContent(XmlSchemaSimpleTypeContent content) {
    this.content = content;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "simpleType>\n";

    if (content != null)
        xml += content.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "simpleType>\n";
    return xml;
}
package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for complex types with a complex content model derived by extension.
 * Extends the complex type by adding attributes or elements. Represents the
 * World Wide Web Consortium (W3C) extension element for complex content.
 */

public class XmlSchemaComplexContentExtension extends XmlSchemaContent {

    /*
     * Allows an XmlSchemaAnyAttribute to be used for the attribute value.*
     */
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /*
     * Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
     * type.*
     */
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }

    /*
     * Name of the built-in data type, simple type, or complex type.*
     */
    QName baseTypeName;

    public void setBaseTypeName(QName baseTypeName) {

        /*
         * specific language governing permissions and limitations
         */
    }

    import javax.xml.namespace.QName;

    /**
     * Class for complex types with a complex content model derived by extension.
     * Extends the complex type by adding attributes or elements. Represents the
     * World Wide Web Consortium (W3C) extension element for complex content.
     */

    public class XmlSchemaComplexContentExtension extends XmlSchemaContent {

        /*
         * Allows an XmlSchemaAnyAttribute to be used for the attribute value.*
         */
        XmlSchemaAnyAttribute anyAttribute;

        public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
            this.anyAttribute = anyAttribute;
        }

        public XmlSchemaAnyAttribute getAnyAttribute() {
            return this.anyAttribute;
        }

        /*
         * Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
         * type.*
         */
        XmlSchemaObjectCollection attributes;

        public XmlSchemaObjectCollection getAttributes() {
            return this.attributes;
        }

        /*
         * Name of the built-in data type, simple type, or complex type.*
         */
        QName baseTypeName;

        public void setBaseTypeName(QName baseTypeName) {

            /*
             * specific language governing permissions and limitations
             */
        }
this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll, or XmlSchemaSequence classes.*/
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";
    xml += "<" + prefix + "extension>\n";
    if (particle != null)
    xml += particle.toString(prefix, (tab + 1));
    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "</" + prefix + "extension>\n";
    return xml;
}

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*/

package org.apache.ws.commons.schema;

/**
 * Class that represents the complex content model for complex types.
 * Contains extensions or restrictions on a complex type that has mixed
 * content or elements only. Represents the World Wide Web Consortium (W3C)
 * complexContent element.
 */

// Vidyanand - 16th Oct - initial implementation

class XmlSchemaComplexContent extends XmlSchemaContentModel {

    /**
     * Creates new XmlSchemaComplexContent
     */
    public XmlSchemaComplexContent() {
    }

    /* One of either the XmlSchemaComplexContentRestriction or
    * XmlSchemaComplexContentExtension classes.
    */
    XmlSchemaContent content;

    public XmlSchemaContent getContent() {
        return this.content;
    }

    public void setContent(XmlSchemaContent content) {
        this.content = content;
    }

    /* Indicates that this type has a mixed content model. Character data
     * is allowed to appear between the child elements of the complex type.
     */
    public boolean mixed;

    public boolean isMixed() {
        return this.mixed;
    }
}
public void setMixed(boolean mixed) {
    this.mixed = mixed;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":")) == -1)
        prefix += ":";
    xml += "<" + prefix + "complexContent">
    xml += content.toString(prefix, (tab + 1));
    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "</" + prefix + "complexContent">
    return xml;
}

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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/***
* Class for the union of simpleType elements. Defines a simpleType element
* as a list of values of a specified data type. Represents the World
* Wide Web Consortium (W3C) union element.
*/

public class XmlSchemaSimpleTypeUnion extends XmlSchemaSimpleTypeContent {

    XmlSchemaObjectCollection baseTypes;
    String memberTypesSource;
    QName[] memberTypesQNames;

    public XmlSchemaSimpleTypeUnion() {
        baseTypes = new XmlSchemaObjectCollection();
    }

    public XmlSchemaObjectCollection getBaseTypes() {
        return this.baseTypes;
    }

    public void setMemberTypesSource(String memberTypesSources) {
        this.memberTypesSource = memberTypesSources;
    }

    public String getMemberTypesSource() {
        return this.memberTypesSource;
    }

    public QName[] getMemberTypesQNames() {
        return this.memberTypesQNames;
    }
}

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package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the restriction of simpleType elements. Represents the World
 * Wide Web Consortium (W3C) restriction element for simple types.
 */
public class XmlSchemaSimpleTypeRestriction extends XmlSchemaSimpleTypeContent {

    /**
     * Creates new XmlSchemaSimpleTypeRestriction
     */
    public XmlSchemaSimpleTypeRestriction() {
        facets = new XmlSchemaObjectCollection();
    }

   XmlSchemaSimpleType baseType;

    public XmlSchemaSimpleType getBaseType() {
        return this.baseType;
    }

    public void setBaseType(XmlSchemaSimpleType baseType) {
        this.baseType = baseType;
    }

    QName baseTypeName;

    public QName getBaseTypeName() {
        return this.baseTypeName;
    }

    public void setBaseTypeName(QName baseTypeName) {
        this.baseTypeName = baseTypeName;
    }

    XmlSchemaObjectCollection facets:// = new XmlSchemaObjectCollection();

    public XmlSchemaObjectCollection getFacets() {
        return this.facets;
    }
}
public String toString(String prefix, int tab) {
    String xml = new String();

    if (!prefix.equals("") && prefix.indexOf(":" == -1)
        prefix += ":");

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "<" + prefix + "restriction ";

    if (baseTypeName != null) {
        xml += "base =" + baseTypeName + "\n";
    } else {
        xml += "\n";
        // inline def
        xml += baseType.toString(prefix, (tab + 1));
    }

    xml += facets.toString(prefix, (tab + 1));
    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "</" + prefix + "restriction\n";

    return xml;
}

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 */
package org.apache.ws.commons.schema;

import org.apache.ws.commons.schema.constants.Constants;

/**
 * Class for complex types. Defines a complex type that determines the
 * set of attributes and content of an element. Represents the World Wide
 * Web Consortium (W3C) complexType element.
 */

public class XmlSchemaComplexType extends XmlSchemaType {
    XmlSchemaAnyAttribute anyAttribute, attributeWildcard;
    XmlSchemaObjectCollection attributes;
    XmlSchemaObjectTable attributeUses;
    XmlSchemaDerivationMethod block, blockResolved;
    XmlSchemaContentModel contentModel;
    XmlSchemaContentType contentType;
    XmlSchemaParticle particleType, particle;
    boolean isAbstract, isMixed;

    /**
     * Creates new XmlSchemaComplexType
     */
    public XmlSchemaComplexType(XmlSchema schema) {
        super(schema);
        attributes = new XmlSchemaObjectCollection();
        block = new XmlSchemaDerivationMethod(Constants.BlockConstants.NONE);
        isAbstract = false;
        isMixed = false;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return anyAttribute;
    }

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaObjectCollection getAttributes() {
        return attributes;
    }

    public XmlSchemaObjectTable getAttributeUses() {
        return attributeUses;
    }
}
public XmlSchemaAnyAttribute getAttributeWildcard() {
    return attributeWildcard;
}

public XmlSchemaDerivationMethod getBlock() {
    return block;
}

public void setBlock(XmlSchemaDerivationMethod block) {
    this.block = block;
}

public XmlSchemaDerivationMethod getBlockResolved() {
    return blockResolved;
}

public XmlSchemaContentModel getContentModel() {
    return contentModel;
}

public void setContentModel(XmlSchemaContentModel contentModel) {
    this.contentModel = contentModel;
}

public XmlSchemaContentType getContentType() {
    return contentType;
}

public void setContentType(XmlSchemaContentType contentType) {
    this.contentType = contentType;
}

public XmlSchemaParticle getContentTypeParticle() {
    return particleType;
}

public boolean isAbstract() {
    return isAbstract;
}

public void setAbstract(boolean b) {
    isAbstract = b;
}

public boolean isMixed() {
    return isMixed;
}
public void setMixed(boolean b) {
    isMixed = b;
}

public XmlSchemaParticle getParticle() {
    return particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(";") == -1)
        prefix += ";";

    String typeName = name != null ? name : "";

    xml += "<" + prefix + "complexType name=" + typeName + "\n" + prefix + "\complexType>\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    if (contentModel != null)
        xml += contentModel.toString(prefix, (tab + 1));

    for (int i = 0; i < attributes.getCount(); i++) {
        xml += attributes.getItem(i).toString(prefix, (tab + 1));
    }

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "complexType>\n";
    return xml;
}
package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the list of simpleType elements. Defines a simpleType element
 * as a list of values of a specified data type. Represents the World Wide
 * Web Consortium (W3C) list element.
 *
 * Creates new XmlSchemaSimpleTypeList
 *
 * @return XmlSchemaSimpleTypeList
 */
public class XmlSchemaSimpleTypeList extends XmlSchemaSimpleTypeContent {

    /**
     * Returns the item type.
     * @return XmlSchemaSimpleType
     */
    public XmlSchemaSimpleType getItemType() {
        return this.itemType;
    }

    /**
     * Sets the item type.
     * @param itemType XmlSchemaSimpleType
     */
    public void setItemType(XmlSchemaSimpleType itemType) {
        this.itemType = itemType;
    }

    QName itemTypeName;

    /**
     * Returns the item type name.
     * @return QName
     */
    public QName getItemTypeName() {
        return this.itemTypeName;
    }

    /**
     * Sets the item type name.
     * @param itemTypeName QName
     */
    public void setItemTypeName(QName itemTypeName) {
    }
}
this.itemTypeName = itemTypeName;
}
}

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package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by extension. Extends the simple  
 * type content of the element by adding attributes. Represents the World Wide  
 * Web Consortium (W3C) extension element for simple content.  
 */

public class XmlSchemaSimpleContentExtension extends XmlSchemaContent {


  /**
   * Creates new XmlSchemaSimpleContentExtension
   */
  public XmlSchemaSimpleContentExtension() {
    attributes = new XmlSchemaObjectCollection();
  }

  /* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
  XmlSchemaAnyAttribute anyAttribute;

  public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {

  

}
this.anyAttribute = anyAttribute;
}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
type.*/
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

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 */

package org.apache.ws.commons.schema;
import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by restriction. Restricts the
 * range of values for the element to a subset of the inherited simple types.
 * Represents the World Wide Web Consortium (W3C) restriction element for simple content.
 */

public class XmlSchemaSimpleContentRestriction extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentRestriction
     */
    public XmlSchemaSimpleContentRestriction() {
        facets = new XmlSchemaObjectCollection();
        attributes = new XmlSchemaObjectCollection();
    }

    /* Allows an XmlSchemaAnyAttribute to be used for the attribute value. */
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
     * type. */
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }

    /* Derived from the type specified by the base value. */
    XmlSchemaSimpleType baseType;

    public void setBaseType(XmlSchemaSimpleType baseType) {
        this.baseType = baseType;
    }

    public XmlSchemaSimpleType getBaseType() {
        return this.baseType;
    }
}
/* Name of the built-in data type, simple type, or complex type. */
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/* One or more of the facet classes: */
XmlSchemaObjectCollection facets;

public XmlSchemaObjectCollection getFacets() {
    return this.facets;
}

package org.apache.ws.commons.schema;

/**
 * Abstract class for simple type content classes.
 */
public abstract class XmlSchemaSimpleTypeContent extends XmlSchemaAnnotated {

/*
protected XmlSchemaSimpleTypeContent() {
}

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package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for complex types with a complex content model that are derived
 * by restriction. Restricts the contents of the complex type to a subset
 * of the inherited complex type. Represents the World Wide Web Consortium
 * (W3C) restriction element for complex content.
 */

public class XmlSchemaComplexContentRestriction extends XmlSchemaContent {

    /*
    * Creates new XmlSchemaComplexContentRestriction
    */
    public XmlSchemaComplexContentRestriction() {
        attributes = new XmlSchemaObjectCollection();
    }

    /* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;
public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef.
* Collection of attributes for the simple type.
*/
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll,
* or XmlSchemaSequence classes.
*/
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("")) && prefix.indexOf(";")) == -1)
        prefix += ":";
xml += "<" + prefix + "restriction>\n";

if (particle != null)
    xml += particle.toString(prefix, (tab + 1));

for (int i = 0; i < tab; i++)
    xml += "\t";

xml += "</" + prefix + "restriction>\n";
return xml;
}

1.2699 hawtdispatch-scala 1.21

1.2700 liblinear 1.94-1.el7
1.2700.1 Available under license:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Initialize empty image
f1c9645dabc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

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 16064   unused     0     0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#     start   end     size     fstype  [fsize bsize   cpg]
a:   4096  6144  2049   4.2BSD     0     0     0
c:   4096  20479  16384   unused     0     0
d:    0   16064 16065   unused     0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

```
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660           10  AdvFS
4  System V
```

BSD disklabel command (m for help):

1.2705 sqlite 3.7.17 8.el7_7.1

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand Archive-d7GDY6A0/sqlite.spec

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 procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
 procset Adobe_CoolType_Utility_T42 1.0 0
 procset Adobe_AGM_Image 1.0 0

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 procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
 procset Adobe_CoolType_Utility_T42 1.0 0
 procset Adobe_AGM_Image 1.0 0

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 # a legal notice, here is a blessing:
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---
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# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#******************************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
# do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
    TEXT NOT NULL DEFAULT "," , t_name TEXT NOT NULL , t_value TEXT NOT NULL DEFAULT "," , b_blob
    BLOB, d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP, i_tmp INTEGER NOT NULL
    DEFAULT 0);
    CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT
    NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT
    NULL, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER,
    t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
    CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
    rd_doctransaction_id INTEGER NOT NULL, i_object_id INTEGER NOT NULL, t_object_table TEXT
    NOT NULL, t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')), t_sqlorder TEXT
    NOT NULL DEFAULT ");
    CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
    rd_doctransaction_id INTEGER NOT NULL, t_message TEXT NOT NULL DEFAULT "," , t_popup VARCHAR(1)
    DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
    CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT
    NOT NULL, t_symbol TEXT NOT NULL DEFAULT "," , t_country TEXT NOT NULL DEFAULT "," , t_type VARCHAR(1)
    NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'T', 'O')) , t_internet_code TEXT
    NOT NULL DEFAULT "," , i_nbdecimal INT NOT NULL DEFAULT 2, rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source

Open Source Used In OnPrem2.1 2.2 25550
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL, f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));

CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_bank_number TEXT NOT NULL DEFAULT '', t_icon TEXT NOT NULL DEFAULT '');

CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL,d_date DATE NOT NULL, f_rate FLOAT NOT NULL CHECK (f_rate>=0), t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));

CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL,t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), i_tmp INTEGER NOT NULL DEFAULT 0,r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);

CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, f_balance FLOAT NOT NULL DEFAULT 0, r_operation_id INTEGER NOT NULL);

CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));

CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_comment TEXT NOT NULL DEFAULT '', rd_operation_id INTEGER NOT NULL, r_category_id INTEGER NOT NULL DEFAULT 0, f_value FLOAT NOT NULL DEFAULT 0.0, i_tmp INTEGER NOT NULL DEFAULT 0, r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT '');

CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '', t_definition TEXT NOT NULL DEFAULT '', t_action_description TEXT NOT NULL DEFAULT '', t_action_definition TEXT NOT NULL DEFAULT '', t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N'))), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, f_transferred FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12)));

CREATE TABLE budgetcategory(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N'))), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, f_transferred FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12));

CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N'))), t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')));

CREATE TABLE budgetcategory(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')));

CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')));
IN ('Y', 'N')) , i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month > 0 AND i_month <= 12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')) , i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1, 0, 1)), f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')) , rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')) , t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, d_date DATE NOT NULL DEFAULT '0000-00-00', rd_operation_id INTEGER NOT NULL, i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment >= 0), t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')) , t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')) , i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days >= 0), t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')) , i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days >= 0), t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')) , i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times >= 0);
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'), t_fullname TEXT, rd_category_id INT, t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_number TEXT NOT NULL DEFAULT '', t_agency_number TEXT NOT NULL DEFAULT '', t_agency_address TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')) , t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'T', 'L', 'W', 'O')) , t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')) , rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'), t_fullname TEXT, t_icon TEXT DEFAULT '', f_sortorder FLOAT, t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')) , t_data TEXT, rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(
  id INT,
  t_name TEXT,
  t_fullname TEXT,
  rd_category_id INT,
  t_bookmarked TEXT,
  i_NBOPERATIONS,
  f_REALCURRENTAMOUNT
);
CREATE TABLE vm_budget_tmp(
  id INT,
  rc_category_id INT,
  t_including_subcategories TEXT,
  f_budgeted REAL,
  f_budgetedModified REAL,
  f_transferred REAL,
  i_year INT,
  i_month INT,
  tCATEGORY,
  t_PERIOD,
CREATE INDEX idx_doctransaction Parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
  t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname FROM node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname FROM parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||t_parameters';
END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||t_node';
END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
    UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
        new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id) END
WHERE id=new.id;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
    UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
        new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id) END
WHERE id=new.id;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id=''
AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id=''
AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
    DELETE FROM account WHERE account.rd_bank_id = OLD.id;
END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id=''
AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id=''
AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL;
CREATE TRIGGER fkdc_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
Nom de la contrainte: fkdc_budget_category_rc_category_id_id') WHERE WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id=''
AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;

CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)'
WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;

CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;

CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE
NEW.rd_category_id!=0 AND NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;

CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE
NEW.rd_category_id!=0 AND NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;

CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM category WHERE category.rd_category_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN
DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet

CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN  DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;

CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN  DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;

CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;

CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;

CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN  DELETE FROM node WHERE node.rd_node_id = OLD.id; END;

CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN  DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;

CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_payee_id_r_payee_id BEFORE DELETE ON payee FOR EACH ROW BEGIN  DELETE FROM operation WHERE operation.r_payee_id = OLD.id; END;

CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON payee FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON payee FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM unit WHERE id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operationbalance FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id'  WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utlis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id'  WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN  DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utlis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id'  WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN  DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utlis par subopération)
Nom de la contrainte: fki_suboperation_category_r_category_id_id'  WHERE NEW.r_category_id!=0 AND NEW.r_category_id!=" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON category FOR EACH ROW BEGIN  UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utlis par subopération)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id'  WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!=" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON refund FOR EACH ROW BEGIN  UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit) Nom de la contrainte: fki_unit_unit_rd_unit_id_id’) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unit) Nom de la contrainte: fku_unit_unit_rd_unit_id_id’) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unitvalue) Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id’) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unitvalue) Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id’) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitvalue_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkdc_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de détruire un objet (category est utilisé par vm_budget_tmp) Nom de la contrainte: fkdc_vm_budget_tmp_category_rc_category_id_id’) WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from v_unit_tmp2;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT s.f_QUANTITY FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_SUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,((SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS t_MOSTIMPSUBOP,(SELECT v_operation_tmp1.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rc_unit_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisé à supprimer cette opération en tant que rapproché' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'année(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM recurrentoperation;
CREATE VIEW v_unitvalue AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_unitvalue.rd_unit_id),'' AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *
  ,IFNULL((SELECT s.t_fullname FROM category s
  WHERE s.id=v_suboperation.r_category_id),"") AS t_CATEGORY,
  IFNULL((SELECT s.t_name FROM refund s
  WHERE s.id=v_suboperation.r_refund_id),"") AS t_REFUND,
  (CASE WHEN v_suboperation.f_value>=0 THEN
    v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME,
  (CASE WHEN v_suboperation.f_value<=0 THEN
    v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE
  FROM v_suboperation;

CREATE VIEW v_suboperation_displayname AS SELECT *
  ,tCATEGORY||':'||f_value AS t_displayname
  FROM v_suboperation_display;

CREATE VIEW v_operation_display_all AS SELECT *,
  (SELECT s.t_name FROM account s
  WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,
  (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol
    ELSE s.t_name END) FROM unit s
  WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,
  (SELECT s.t_CATEGORY FROM v_suboperation_display s
  WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,
  (SELECT s.t_REFUND FROM v_suboperation_display s
  WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,
  (CASE WHEN v_operation.f_QUANTITY<0 THEN '-'
    WHEN v_operation.f_QUANTITY=0 THEN ''
    ELSE '+' END) AS t_TYPEEXPENSE,
  (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense'
    ELSE 'Revenu' END) AS t_TYPEEXPENSENLS,
  STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,
  STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,
  STRFTIME('%Y',v_operation.d_date)||'-Q'||
    (CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1'
      WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2'
      WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3'
      ELSE '4' END) AS d_DATEQUARTER,
  STRFTIME('%Y',v_operation.d_date)||'-S'||
    (CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1'
      ELSE '2' END) AS d_DATESEMESTER,
  STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR,
  (SELECT count(*) FROM v_recurrentoperation s
  WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT,
  (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY
    ELSE 0 END) AS f_QUANTITY_INCOME,
  (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY
    ELSE 0 END) AS f_QUANTITY_EXPENSE,
  (SELECT o2.f_balance FROM operationbalance o2
  WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE,
  (CASE WHEN v_operation.f_QUANTITY>=0 THEN
    v_operation.f_CURRENTAMOUNT
    ELSE 0 END) AS f_CURRENTAMOUNT_INCOME,
  (CASE WHEN v_operation.f_QUANTITY<=0 THEN
    v_operation.f_CURRENTAMOUNT
    ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE
  FROM v_operation;

CREATE VIEW v_operation_template_display AS SELECT *
  FROM v_operation_display_all WHERE t_template='Y';

CREATE VIEW v_operation_display AS SELECT *
  FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';

CREATE VIEW v_unit_display AS SELECT *
  FROM v_unit
  WHERE v_unit.f_QUANTITYOWNED IS NOT NULL;

CREATE VIEW v_account_display AS SELECT *
  FROM v_account
  WHERE v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT
    FROM v_unit u
    WHERE u.id=s.rc_unit_id AND
    s.rd_account_id=v_account.id AND s.d_date='0000-00-00'))
    AS f_QUANTITY;

CREATE VIEW v_recurrentoperation AS SELECT *
  FROM v_operation
  WHERE v_operation.t_template='Y';

CREATE VIEW v_recurrentoperation AS SELECT *
  FROM v_operation
  WHERE v_operation.t_template='N';

CREATE VIEW v_suboperation_display AS SELECT *
  ,IFNULL((SELECT s.t_fullname FROM category s
  WHERE s.id=v_suboperation.r_category_id),"") AS t_CATEGORY,
  IFNULL((SELECT s.t_name FROM refund s
  WHERE s.id=v_suboperation.r_refund_id),"") AS t_REFUND,
  (CASE WHEN v_suboperation.f_value>=0 THEN
    v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME,
  (CASE WHEN v_suboperation.f_value<=0 THEN
    v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE
  FROM v_suboperation;
CREATE VIEW v_operation_consolidated AS SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.tCATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autoris à dtruire ce suivant car utilis par des opérations rapprochées' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS d_LASTDATE  FROM refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autoris à dtruire ce tiers car utilis par des opérations rapprochées' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT *  FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%') AND t_status='Y') THEN 'Vous n’êtes pas autoris à dtruire cette catégorie car utilise par des opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_category AS SELECT *, (SELECT count(*) FROM v_operation display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),(0)) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname || ' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname || ' > %') AS i_SUMNBOPERATIONS, (CASE WHEN c.t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category WHERE c.t_bookmarked='Y' AND c.t_fullname LIKE vm_category_display_tmp.t_fullname || ' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLs FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.id||'-'||'category'; END;

SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
finish_test
return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
    CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
    CREATE VIRTUAL TABLE fts USING fts4;
    CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
    CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
      "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
      "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
      "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
      INTEGER, "mfo:optional:graph" INTEGER);
    CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
      "mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
      "mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime"
      INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
      "mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
      INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
      "mfo:type:graph" INTEGER);
    CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
      "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
      "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
    CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
      "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
      "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime"
      INTEGER);
    CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
      "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"
      INTEGER);
    CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
      "mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
      "mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
      "mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph"}
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER, "mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:belongsToCategory" INTEGER NOT NULL);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL, "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER, "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime" INTEGER,
"ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER,
"ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime" INTEGER,
"ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
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<td>nco:title</td>
<td>Text containing titles</td>
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<tr>
<td>nco:BbsNumber</td>
<td>Text containing BbsNumber</td>
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<tr>
<td>nco:CarPhoneNumber</td>
<td>Text containing CarPhoneNumber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>nco:CellPhoneNumber</td>
<td>Text containing CellPhoneNumber</td>
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<tr>
<td>nco:Contact</td>
<td>Text containing Contact</td>
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<td>nco:fullname</td>
<td>Text containing fullnames</td>
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<td>nco:key</td>
<td>Text containing keys</td>
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<tr>
<td>nco:title</td>
<td>Text containing titles</td>
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<tr>
<td>nco:BbsNumber</td>
<td>Text containing BbsNumber</td>
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<tr>
<td>nco:CarPhoneNumber</td>
<td>Text containing CarPhoneNumber</td>
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<tr>
<td>nco:CellPhoneNumber</td>
<td>Text containing CellPhoneNumber</td>
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"nco:contactGroupName" TEXT COLLATE NOCASE, "nco:contactGroupName:graph" INTEGER,
"nco:contactGroupName" TEXT COLLATE NOCASE, "nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE, 
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL,
"nco:containsContact" INTEGER NOT NULL, "nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:contactMediumComment" TEXT COLLATE NOCASE, 
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL, 
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL, 
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, 
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, 
"nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL, 
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, 
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, 
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY, 
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER, 
"nco:imAccountType" TEXT COLLATE NOCASE, 
"nco:imAccountType:graph" INTEGER, 
"nco:imDisplayName" TEXT COLLATE NOCASE, 
"nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER, 
"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, 
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presence:LastModified" INTEGER,
"nco:presence:LastModified:localDate" INTEGER,
"nco:presence:LastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER,
"nco:nameHonorificSuffix" TEXT COLLATE NOCASE, "nco:nameHonorificSuffix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL,
"nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
<table>
<thead>
<tr>
<th>Field Name</th>
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<tr>
<td>&quot;nfo:bitsPerSample&quot;</td>
<td>INTEGER</td>
</tr>
<tr>
<td>&quot;nfo:frontChannels&quot;</td>
<td>INTEGER</td>
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<tr>
<td>&quot;nfo:frontChannels:&quot;</td>
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<tr>
<td>&quot;nfo:sampleRate&quot;</td>
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<td>&quot;nfo:rearChannels&quot;</td>
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<tr>
<td>&quot;nfo:rearChannels:&quot;</td>
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<tr>
<td>&quot;nfo:averageAudioBitrate&quot;</td>
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<td>&quot;nfo:gain&quot;</td>
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</tr>
<tr>
<td>&quot;nfo:gain:&quot;</td>
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<td>&quot;nfo:peakGain&quot;</td>
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<td>&quot;nfo:audioOffset&quot;</td>
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<tr>
<td>&quot;nfo:audioOffset:&quot;</td>
<td>INTEGER</td>
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"nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE, "nfo:hasHash" INTEGER, "nfo:fileOwner" INTEGER, "nfo:fileOwner:graph" INTEGER, "nfo:fileLastModified:graph" INTEGER, "nfo:fileLastModified:localDate" INTEGER, "nfo:fileLastModified:localTime" INTEGER);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER, "nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER, "nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER, "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER, "nfo:softwareCmdLine" TEXT COLLATE NOCASE, "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph" INTEGER,
  "nfo:programmingLanguage" TEXT COLLATE NOCASE, "nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
  "nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
  "nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount" INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate" REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
  "nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER, "nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
  "nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);

CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL, "nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);

CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL, "nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);

CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:setNumber" INTEGER);

CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);


CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);

CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:exposureTime" REAL, "nmm:flash" INTEGER, "nmm:isCropped" INTEGER, "nmm:isCropped:graph" INTEGER, "nmm:isColorCorrected" INTEGER, "nmm:isColorCorrected:graph" INTEGER);

CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, "nmm:radioPTY:graph" INTEGER);

CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);

CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);

CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER, "nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season" INTEGER);

INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER, "nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER, "nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE, "nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE, "nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE, "nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER, "nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER, "nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER, "nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE NOCASE, "mtp:waveformat:graph" INTEGER); CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER); CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER); CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER); CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER); CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY); CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY); CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER, "nmo:duration:localDate" INTEGER, "nmo:duration:localTime" INTEGER); CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER); CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER); CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY); CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY); CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER); CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER); CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
<table>
<thead>
<tr>
<th>ID</th>
<th>PRIMARY KEY</th>
<th>INTEGER</th>
<th>...</th>
<th>...</th>
</tr>
</thead>
</table>

CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
   "rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range" INTEGER,
   "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
   "tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
   "tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed" INTEGER,
   "tracker:fulltextIndexed:graph" INTEGER,
   "tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph" INTEGER,
   "tracker:transient" INTEGER, "tracker:transient:graph" INTEGER,
   "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
   "tracker:defaultValue" TEXT, "tracker:defaultValue:graph" INTEGER,
   "nrl:maxCardinality" INTEGER, "nrl:maxCardinality:graph" INTEGER,
   "tracker:writeback" INTEGER, "tracker:writeback:graph" INTEGER,
   "tracker:forceJournal" INTEGER, "tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdfs:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
   "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
   "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
   "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
   "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY,
   "rdfs:comment" TEXT, "rdfs:comment:graph" INTEGER, "rdfs:label" TEXT,
   "rdfs:label:graph" INTEGER, "tracker:added" INTEGER, "tracker:added:graph" INTEGER,
   "tracker:added:localDate" INTEGER, "tracker:added:localTime" INTEGER,
   "tracker:modified" INTEGER, "tracker:modified:graph" INTEGER,
   "tracker:damaged" INTEGER, "tracker:damaged:graph" INTEGER,
   "dc:title" TEXT, "dc:title:graph" INTEGER, "dc:creator" TEXT,
   "dc:creator:graph" INTEGER, "dc:subject" TEXT, "dc:subject:graph" INTEGER,
   "dc:description" TEXT, "dc:description:graph" INTEGER, "dc:publisher" TEXT,
   "dc:publisher:graph" INTEGER, "dc:type" TEXT, "dc:type:graph" INTEGER,
   "dc:format" TEXT, "dc:format:graph" INTEGER, "dc:identifier" TEXT,
   "dc:identifier:graph" INTEGER, "dc:language" TEXT, "dc:language:graph" INTEGER,
   "dc:coverage" TEXT, "dc:coverage:graph" INTEGER, "dc:rights" TEXT,
   "dc:rights:graph" INTEGER, "nao:identifier" TEXT, "nao:identifier:graph" INTEGER,
   "nao:numericRating" REAL,
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY, "scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER,
"scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER,
"scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:calendarItemAlarm" INTEGER, "scal:calendarItemAlarm:graph" INTEGER,
"scal:start" INTEGER, "scal:start:graph" INTEGER, "scal:end" INTEGER,
"scal:end:graph" INTEGER, "scal:isAllDay" INTEGER,
"scal:isAllDay:graph" INTEGER, "scal:priorit" INTEGER,
"scal:priorit:graph" INTEGER, "scal:rdate" INTEGER,
"scal:rdate:graph" INTEGER, "scal:exceptionRDate" INTEGER,
"scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL,
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL,
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL,
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL,
"scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL,
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL,
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER,
"scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER,
"scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER,
"scal:due" INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude" REAL,
"slo:longitude:graph" INTEGER, "slo:GeoLocation" INTEGER,
"slo:GeoLocation:graph" INTEGER, "slo:GeoLocation:graph" INTEGER,
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"slo:GeoLocation:graph" INTEGER, "slo:GeoLocation:graph" INTEGER,
"slo:GeoLocation:graph" INTEGER, "slo:GeoLocation:graph" INTEGER,
"slo:GeoLocation:graph" INTEGER, "slo:GeoLocation:graph" INTEGER,
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER, "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER, "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON "mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifer_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byname_minute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bybymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncaRela_ID_ID" ON "ncal:UnionParentClass_ncal:ncaRela" (ID, "ncal:ncaRela");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON "nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON "nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:PersonContact_nco:belongsToGroup_ID_ID" ON "nco:PersonContact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:PersonContact_nco:note_ID_ID" ON "nco:PersonContact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdfs:Property_rdfs:subPropertyOf_ID_ID" ON "rdfs:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID,
"scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE)||? COLLATE
NOCASE)||? COLLATE NOCASE)||? COLLATE NOCASE)) FROM (SELECT
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS
"3_u" FROM "nco:PersonContact_nco:hasAffiliation2", "nco:Role_nco:hasIMAddress3" WHERE
"1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" =
"nco:Role_nco:hasIMAddress3"."ID"), (SELECT

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Open Source Used In OnPrem2.1 2.2 25597
GROUP_CONCAT("2_u"||? COLLATE NOCASE)||SELECT "nco:phoneNumber"
FROM "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation"
AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation4"
"nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber5" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND
"nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" =
"nco:Role_nco:hasPhoneNumber5"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE)||SELECT "nco:emailAddress"
FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE,
FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress"
AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation6"
"nco:PersonContact_nco:hasAffiliation6",
"nco:Role_nco:hasEmailAddress7" AS "nco:Role_nco:hasEmailAddress7"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND
"nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" =
"nco:Role_nco:hasEmailAddress7"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE)||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:blogUrl"),',')) FROM "nco:Role_nco:blogUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:websiteUrl"),',')) FROM "nco:Role_nco:websiteUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',')) FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
"3_u" FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation8"
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID"), (SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
"rdfs:Resource_nao:hasTag9"."nco:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID")), (SELECT Uri FROM
Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE)||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE
ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||COALESCE((SELECT
GROUP_CONCAT((SELECT "nco:department" FROM "nco:Affiliation"
WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT("nco:title","")) FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
"3_u" FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10","ID"), (SELECT
GROUP_CONCAT("nco:note","" FROM "nco:Contact_nco:note" WHERE ID = "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:postalcode" FROM
"nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12","nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11",
"nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"","ID" AND
"nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12","ID"), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ";") FROM (SELECT
"nie:InformationElement_nao:hasProperty13","nao:hasProperty" AS "8_u", "nao:PropertyName" AS "9_u",
"nao:Property14","nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13",
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS "nco:PersonContact1","ID" AS "1_u" FROM "nco:PersonContact" AS

"nco:PersonContact1") ORDER BY "1_u";
}
} {/.* Goto .*/

finish_test

No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

No license file was found, but licenses were detected in source scan.

Proprietary SQLite Extensions

You are welcomed to use SQLite in closed source, proprietary, and/or

Suppose the demo_data.boundary field holds some proprietary data description

No license file was found, but licenses were detected in source scan.

Sources are in the "public domain". But there also exist proprietary, licensed extensions to SQLite, written and maintained

Rather than using fopen() to write XML or some proprietary format into


No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
#$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
  finish_test
  return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com','EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:
Volume on Autohedge transaction

Volume Hedged

1     - 24990
2500 - 54995000
5500 - 64996000

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,
PLEAS E SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.
BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification:  (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG-- +PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!);
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks. Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2
You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610;
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: '"'chris.germany@enron.com'' <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,
kmccrea@sablaw.com, thompson@wrightlaw.com,' , 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-
Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,
lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',
'rwolkwitz@powermerchants.com', ",

Here is a goody for you);
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o'ourke@enron.com', 'k..allen@enron.com,

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10,000 / Enron ; 110,000 / HPL IFERC
LS HPL LSK IC 30,000 / Enron
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight?-
Susan Pereira);

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.
');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.
Thanks,
JMForney 3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam 35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
')

Thanks

-------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
From: William Kelly @ ECT

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

')

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300
Dave);

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric;

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben;

Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,','CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI, the latest broadside against the generators.'*

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "'smara@enron.com'"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------
Nailia Dindarova  
25/06/2001 15:36  
To: Michael Brown/Enron@EUEnronXGate  
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/ licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc '');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
Thomas A Martin  
10/11/2000 03:55 PM  
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

agoddard@nisource.com on 03/08/2001 09:16:57 AM  
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>  
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>  
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com, 'Split Rock Energy LLC', 'We have received the executed
EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net;', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I''m hearing there is some hold-up & the units are stored on 44.

Shelley');
San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available  and submit
it no later than Friday, March 30th.

I'll get it done today.

DG  3-9573

From: Bryce Baxter  06/12/2000 07:15 PM

To:  Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook.  If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.
ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.
Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays. PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

')

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.


')

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com, 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

')

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'Martin B. Cominsky', 'Director, Southwest Region', 'Anti-Defamation League', '713/627-3490, ext. 122', '713/627-2011 (fax)')
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....www.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques, I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio
-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
'));
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???, ')

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committee approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', ', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490;
INSERT INTO email[from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');
INSERT INTO email[from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,
Justin Boyd told me that you can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email[from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Relaint
Steve McGinn 713-207-4000

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

'));

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lcschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.
Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg);

```sql
COMMIT;
```
do_test fts2c-2.1 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts2c-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}

do_test fts2c-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts2c-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8}}

do_test fts2c-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
do_test fts2c-3.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH "child product"
    }
}

do_test fts2c-4.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
}

do_test fts2c-4.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'christmas candlelight'
    }
}

do_test fts2c-4.3 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
}

do_test fts2c-4.4 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
}

do_test fts2c-4.5 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'first things'
    }
}
do_test fts2c-4.6 {
execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b> }}

do_test fts2c-4.7 {
execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH '"pursuant to"'
}
} {{Erin: <b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b> }}

do_test fts2c-4.8 {
execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variance detected.
Variance detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b> }}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

do_test fts2c-5.2 {
execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
}
six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

finish_test

INSERT INTO x1 VALUES('blonds', 'proprietary');

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.

#

do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction  Volume Hedged
1      - 24990  
2500 - 54995000 
5500 - 64996000); 
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI: If it's ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I'll be more than willing to stay.‘); 
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensesxms.enron.com’);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rt/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.
Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy);

--- Original Message ---
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

 Fran Fagan
 Sr. HR Rep
 713.853.5219
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

Greg Elliot
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE.
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610;

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ii
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

Is it safe to assume that practice is cancelled for tonight?

Susan Pereira

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160

LS HPL LSK IC  30,000 / Enron

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira

Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

George,

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160

LS HPL LSK IC  30,000 / Enron

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George,

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160

LS HPL LSK IC  30,000 / Enron

INSERT INTO email([from], [to], subject, body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from], [to], subject, body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20, 2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20, 2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

INSERT INTO email([from], [to], subject, body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification:  (West VaR - 11/07/2001)', 'The report named: West VaR


INSERT INTO email([from], [to], subject, body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap  10,000 / Enron ; 110,000 / HPL IFERC

LS HPL LSK IC  30,000 / Enron

INSERT INTO email([from], [to], subject, body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira

INSERT INTO email([from], [to], subject, body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

INSERT INTO email([from], [to], subject, body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160')

UPDATE email([from], [to], subject, body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no
Here is the curve file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM
From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',

');
'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

I saw it. Very interesting.

Vince

Cheers and have a nice weekend,

JHHerbert
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: ', 'i will try to line up a pig for you ');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE] [IMAGE] [IMAGE] [IMAGE]

Dear SmartReminders Member, [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------
Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM ----------------------
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '"', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,
Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,','email address change','Hello all.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

  bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)','Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

	');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

---

Please see the attached.
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.
');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out........

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

)
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

'):
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, ')

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???
CENTANA

'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

DEC 1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)
Chairperson:Outlook Migration Team

diana.seifert@enron.com
mark.taylor@enron.com
Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards
Diana Seifert
EOL PCG;

INSERT INTO email(from,[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email(from,[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.);

INSERT INTO email(from,[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:
running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374

table.

Relaint
Steve McGinn 713-207-4000');

Insert INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.

  Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.
John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP',
'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
   COMMIT;
SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts1c-1.6 {
execsql {
SELECT rowid FROM email WHERE email MATCH '"mark susan"'
}
} {}
do_test fts1c-1.7 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
execsql {
SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts1c-1.9 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}
# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
execsql {

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SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
} } {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
  } } {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
  } } {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
        WHERE body MATCH '"child product"'
  } } {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
  } } {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
        WHERE email MATCH 'christmas candlelight'
  } } {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
  } }
WHERE email MATCH 'deal sheet potential reuse'
}
} {}
{{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
  Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
  Contract negotiations <b>...</b>}}
do_test fts1c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {}
{{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations }}
do_test fts1c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {}
{{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts1c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {}
{{<b>christian</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
  Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts1c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
} {}
{{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts1c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {}
{{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
  Variances detected.
  Variances detected in <b>Load</b> schedule.

  LOG MESSAGES:

  PARSING <b>...</b>}}
# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'questar enron OR com'
    }
} | {matt.smith@enron.com ...} six reports:
31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 ...
}
do_test fts1c-5.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'enron OR com questar'
    }
} | {matt.smith@enron.com ...} six reports:
31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 ...
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%Copyright
No license file was found, but licenses were detected in source scan.

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

Found in path(s):

No license file was found, but licenses were detected in source scan.

application code is free to use these routines as well, if desired.

Found in path(s):

No license file was found, but licenses were detected in source scan.

MMFauxFont.prc

Found in path(s):
* %%%BeginFile

No license file was found, but licenses were detected in source scan.

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p><b>Charlotte, North Carolina - December 12, 2007</b> - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members. <p></p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs. <p></p>

<p>The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in

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return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:

SQLite Consortium
Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh@sqlite.org<br>http://www.sqlite.org/<br>Tel: +1.704.948.4565
</p>

<p><b>About Mozilla</b></p>

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

<p><b>CONTACT INFORMATION:</b><br>Mozilla Corporation<br>Jessica Waight<br>Tel: +1.415.345.4754<br>Email: jwaight@outcastpr.com</p>

<p><b>About Symbian Limited</b></p>

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

<p><b>CONTACT INFORMATION:</b><br>Symbian Global Press Office<br>Karen Hamblen<br>+44 20 7154 1707<br>press@symbian.com
<p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.</p>

SQLite core and like the SQLite core are in the public domain. The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

<code>*</code>
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

application is free to use the same <a href="/c3ref/sqlite3.html">database connection</a> or the

<code>*</code>

 */
The "printf" code that follows dates from the 1980's. It is in the public domain. The original comments are included here for completeness. They are very out-of-date but might be useful as an historical reference. Most of the "enhancements" have been backed out so that the functionality is now the same as standard printf().

**************************************************************************
**************************************************************************
This file contains code for a set of "printf"-like routines. These routines format strings much like the printf() from the standard C library, though the implementation here has enhancements to support SQLlite.

Found in path(s):
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

_FOUND in path(s):
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>
<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between __________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> ("SQLite"); and</p>
<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and maintenance of the SQLite code base, operation of the SQLite
website, protection and maintenance of the SQLite
trademark, as well as for promotion of SQLite at conferences and
trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of
services from Hwaci in consideration for their support of SQLite; and</h/p>

<p>WHEREAS, Company and Hwaci each wish SQLite to be supported and
maintained as an independent, community-driven project, and to
ensure the SQLite development team remains independent.</p>

NOW, THEREFORE, in consideration of the mutual promises contained
herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>
<h3>1.1 SQLite Developers</h3>
The "SQLite Developers" are the employees or contractors of Hwaci engaged
in the development of SQLite, including without limitation the
SQLite Architect.</p>

<h3>1.2 SQLite Architect</h3>
The "SQLite Architect" is the SQLite Developer with ultimate
responsibility and authority over changes and maintenance of the
SQLite code. The current SQLite Architect is the original designer
and developer of SQLite, D. Richard Hipp. Hwaci may change the
SQLite Architect from time to time upon approval by Company.</p>

<h3>1.3 Consortium Member</h3>
A "Consortium Member" is a company or organization, including
but not limited to Company, which has entered into an agreement
with Hwaci which is substantially similar to this Agreement.</p>

<h2>2.0 Agreement</h2>
<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>
<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit,
timely and accurate answers, advice, and instruction
in response to questions and comments from Company about SQLite
submitted by email or by telephone at any time day or night.
<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<p></p>

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<p></p>

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<p></p>

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<p></p>

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<p></p>

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

<p></p>

<h4>2.1.8 Code Quality</h4>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
2.1.9 Backwards Compatibility

The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

2.1.10 Test Coverage

The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

2.1.11 Website

The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.

2.2 Responsibilities And Obligations Of The SQLite Architect

2.2.1 Private Briefings

The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

2.2.2 Direction

The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

2.2.3 Oversight

The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

2.2.4 Continuity

The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.
2.3 Responsibilities And Obligations Of Hwaci

2.3.1 Employer

Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

2.3.2 Responsible Party

All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.

2.3.3 Multiple Developers

Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.

2.3.4 Mentorship

Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

2.3.5 Audits

Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

2.3.6 Disaster Planning

Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical,
at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".
<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>
<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>
<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is
authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation
publicly available as downloadable files
and make a public statement ceding all intellectual
property rights, including but not limited to copyright
and patent rights, in the SQLite source code and documentation
to the public domain.
To the extent that the SQLite Developers and Hwaci
elect not to release the SQLite
source code and documentation
publicly, they shall provide copies thereof to
Company and hereby grants to Company, under all of the
SQLite Developers' and Hwaci's
rights
including but not limited to copyright and patent rights,
in and to the SQLite source code and documentation,
perpetual, irrevocable,
worldwide, non-exclusive, sublicenseable license to use,
copy, prepare derivative works of, publicly perform and
display the SQLite source code and documentation
and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the
publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such
trademark applications or registrations as it deems
appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,
<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>
Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

8.3 Waiver.

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

8.4 Severability.

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this
Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">
<tr><td valign="top"
HWACI<br>By:
Print Name:
Title:
</td><td width="10%"&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb
</td><td width="10%"></td>
</tr>
</table>
No license file was found, but licenses were detected in source scan.

/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**  May you do good and not evil.
**  May you find forgiveness for yourself and forgive others.
**  May you share freely, never taking more than you give.
**
**********************************************************************
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
** + for dot-file locks
** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** + plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

Found in path(s):

No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%%Version
No license file was found, but licenses were detected in source scan.

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright.

Found in path(s):
No license file was found, but licenses were detected in source scan.

The public domain and originals of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain.  
<li>
their contributions to the public domain. 
</li>
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#     May you do good and not evil.
#     May you find forgiveness for yourself and forgive others.
#     May you share freely, never taking more than you give.
#
#*******************************************************************************
#
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
    execsql {CREATE TABLE tbl1(t1 text)}
    foreach word {this program is free software} {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1} 
} {free is program software this}
do_test func-0.1 {
execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
}
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1} 
} {4 2 7 8 4}
do_test func-1.1 {
    set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
    set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
    execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
            ORDER BY length(t1)} 
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
    execsql {SELECT coalesce(length(a),-1) FROM t2} 
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1} 
} {fr is pr so th}
do_test func-2.1 {
    execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1} 
} {r s r o h}
do_test func-2.2 {
    execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1} 
} {ee {} ogr ftw is}
do_test func-2.3 {
    execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1} 
}
do_test func-2.4 {
    execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.5 {
    execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
}

do_test func-2.6 {
    execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.7 {
    execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
}

(do_test func-2.8 {
    execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
}
)

# Only do the following tests if TCL has UTF-8 capabilities
#
if ""u1234""!="u1234"
{

# Put some UTF-8 characters in the database
#

do_test func-3.0 {
    execsql {DELETE FROM tbl1}
    foreach word "contains UTF-8 characters hiሴho" {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"

do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}

do_test func-3.2 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}

do_test func-3.3 {
    execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"

do_test func-3.4 {
    execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
    execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont \u1234h"
do_test func-3.6 {
    execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
    execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
    execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
    execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
    execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
    execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
}"this program is free software"
} ;# End \u1234!=\u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
    do_test func-4.1 {
        execsql {
            CREATE TABLE t1(a,b,c);
            INSERT INTO t1 VALUES(1,2,3);
            INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
            INSERT INTO t1 VALUES(3,-2,-5);
        }
        catchsql {SELECT abs(a,b) FROM t1}
    } {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
    do_test func-4.1 {
        execsql {
            CREATE TABLE t1(a,b,c);
            INSERT INTO t1 VALUES(1,2,3);
            INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
            INSERT INTO t1 VALUES(3,-2,-5);
        }
        catchsql {SELECT abs(a,b) FROM t1}
    } {1 {wrong number of arguments to function abs()}}
}
catchsql {SELECT abs(a,b) FROM t1}  
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
  catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
  catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 1.2345678901234 2]}
do_test func-4.4 {
  catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 12345.6789 5]}
}
ifcapable !floatingpoint {
  if [[working_64bit_int]] {
do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
  } {0 [2 12345678901234 2]}
  }
do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
  } {0 [3 1234567890 5]}
  }
do_test func-4.4.1 {
    execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
    execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
ifcapable floatingpoint {
do_test func-4.5 {
  catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
  catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 [-2.0 1.23 2.0]}
do_test func-4.7 {
  catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 [2.0 1.0 -2.0]}
do_test func-4.8 {
  catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 [3.0 -12346.0 -5.0]}
do_test func-4.9 {
  catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 [3.0 -12345.68 -5.0]}

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do_test func-4.10 {
    catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
    execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
    execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
    execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
    execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
    catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}

# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
        execsql {SELECT round($x1);}
    } $x2
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
        execsql {SELECT round($x1,1);}
    } $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.499999999999999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.499999999999999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.499999999999999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {1234567890123.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);}
} {12345678901234.0}
do_test func-4.33 {
    execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
    execsql {SELECT round(123456789012335.1);}
} {123456789012335.4}
do_test func-4.35 {
    execsql {SELECT round(123456789012345.2);}
} {123456789012345.45}
do_test func-4.36 {
    execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.37 {
    execsql {SELECT round(999999999999999.55,1);}
}
# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
}
{THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
}
{this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
}
{1 1 {1} {1} 345 345 {1} {1} 67890 67890}
ifcapable !icu {
do_test func-5.4 {
  catchsql {SELECT upper(a,5) FROM t2}
}
{1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
}
{1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
}
{1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
}
{1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
}
{nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
}
{1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
}
{1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {

execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
      SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
    } {68236 3 22745.33 1 67890 5}
  }
ifcapable !floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
      SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
    } {68236 3 22745.0 1 67890 5}
  }
  do_test func-8.2 {
    execsql {
      SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
    }
    } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
  ifcapable tempdb {
  do_test func-8.3 {
    execsql {
      CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
    } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
  } else {
  do_test func-8.3 {
    execsql {
      CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
    } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
  }
  do_test func-8.4 {
    execsql {

SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;

if capable compound {
  do_test func-8.5 {
    execsql {
      SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
     UNION ALL SELECT -9223372036854775807)
    }
    {0}
  }
  do_test func-8.6 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
     UNION ALL SELECT -9223372036854775807)
    }
    {integer}
  }
  do_test func-8.7 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
     UNION ALL SELECT -9223372036850000000)
    }
    {real}
  }
}
if capable floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
     UNION ALL SELECT -9223372036850000000)
    }
    {1}
  }
}
if capable !floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
     UNION ALL SELECT -9223372036850000000)
    }
    {1}
  }
}

# How do you test the random() function in a meaningful, deterministic way?
#
  do_test func-9.1 {
    execsql {
      SELECT random() is not null;
    }
    {1}
  }
  do_test func-9.2 {

execsql {
    SELECT typeof(random());
}
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
    length(randomblob(2000))
  }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
# ifcapable bloblit {
#  do_test func-9.10 {
#    execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')} {00112233445566778899aAbBcCdDeEfF}
#  }
#} set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
  do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))} {6100620063006400310032006700}
    execsql {SELECT hex(replace('abcdefg','a','aaa'))} {61006100610060640063006400650066006700}
    execsql {SELECT hex(replace('abcdefg','a',"12"))} {6100620063006400650066006700}
  }
  do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','a',"12"))} {61006100610060640063006400650066006700}
  }
  do_test func-9.13-utf16le {
    execsql {SELECT hex(replace('abcdefg','a',"aaa"))} {61006100610060640063006400650066006700}
  }
} elseif {$encoding=="UTF-8"} {
  do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))} {61626364313267}
    execsql {SELECT hex(replace('abcdefg','ef',"12"))} {61626364656667}
  }
  do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef',"12"))} {61626364656667}
  }
  do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef',"12"))} {61626364656667}
  }
}
do_test func-9.13-utf8 {
  execsql {SELECT hex(replace('aabcdefg', 'a', 'aaa'))}
} {616161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL, NULL);
  }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234);
  }
} {1234}
do_test func-10.3 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', NULL);
  }
} {{}}
if capable floatingpoint {
do_test func-10.4 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234);
  }
} {1.234}
do_test func-10.5 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*);
  }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()# etc. are called. These tests use two special user-defined functions# (implemented in func.c) only available in test builds.## Function test_destructor() takes one argument and returns a copy of the# text form of that argument. A destructor is associated with the return# value. Function test_destructor_count() returns the number of outstanding# destructor calls for values returned by test_destructor().#
if <![db eval {PRAGMA encoding}]=="UTF-8"] {#
do_test func-12.1-utf8 {
  execsql {
    SELECT test_destructor('hello world'), test_destructor_count();
  }
} {{hello world} 1}
} else {
  ifcapable {utf16} {
    do_test func-12.1-utf16 {
      execsql {
        SELECT test_destructor16('hello world'), test_destructor_count16();
      }
    } {{hello world} 1}
  }
}
do_test func-12.2 {
do_test func-12.3 {
    execsql {
        SELECT test_destructor('hello')||' world'
    }
} {hello world}
do_test func-12.4 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.5 {
    execsql {
        CREATE TABLE t4(x);
        INSERT INTO t4 VALUES(test_destructor('hello'));
        INSERT INTO t4 VALUES(test_destructor('world'));
        SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    }
} {hello world}
do_test func-12.6 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.7 {
    execsql {
        DROP TABLE t4;
    }
} {}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
    execsql {
        SELECT test_auxdata('hello world');
    }
} {0}
do_test func-13.2 {
    execsql {
        CREATE TABLE t4(a, b);
        INSERT INTO t4 VALUES('abc', 'def');
        INSERT INTO t4 VALUES('ghi', 'jkl');
    }
}
do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}
do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}
do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}
do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "SELECT test_auxdata( ?, a ) FROM t4;"
  set STMT [sqlite3_prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
  }
  lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
  catch {
    db function [string repeat X 254] {return "hello"}
  }
} {0}
do_test func-14.2 {
  catch {
    db function [string repeat X 256] {return "hello"}
  }
} {1}

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do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')} 
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)} 
} {1 {this is the error message}}
do_test func-15.4 {
db errorcode 
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
execsql {
    CREATE TABLE tbl2(a, b);
}
set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}

# Correctly handle function error messages that include %.  Ticket #1354
#
do_test func-17.1 {
proc testfunc1 args {error "Error %d with %s percents %p"}
db function testfunc1 ::testfunc1
catchsql {
    SELECT testfunc1(1,2,3);
}
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
}
} {9902}
ifcapable floatingpoint {
    do_test func-18.2 {
        execsql {
            INSERT INTO t5 VALUES(0.0);
            SELECT sum(x) FROM t5;
        }
        } {9902.0}
    }

    # The sum of nothing is NULL. But the sum of all NULLs is NULL.
    #
    do_test func-18.3 {
        execsql {
            DELETE FROM t5;
            SELECT sum(x), total(x) FROM t5
        }
        } {{} 0.0}
    }

    do_test func-18.4 {
        execsql {
            INSERT INTO t5 VALUES(NULL);
            SELECT sum(x), total(x) FROM t5
        }
        } {{} 0.0}
    }

    do_test func-18.5 {
        execsql {
            INSERT INTO t5 VALUES(NULL);
            SELECT sum(x), total(x) FROM t5
        }
        } {{} 0.0}
    }

    do_test func-18.6 {
        execsql {
            INSERT INTO t5 VALUES(123);
            SELECT sum(x), total(x) FROM t5
        }
        } {123 123.0}
    }

    # Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
    # an error. The non-standard TOTAL() function continues to give a helpful
    # result.
    #
    do_test func-18.10 {
        execsql {
            CREATE TABLE t6(x INTEGER);
            INSERT INTO t6 VALUES(1);
            INSERT INTO t6 VALUES(1<<62);
            SELECT sum(x) - ((1<<62)+1) from t6;
do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
} integer
ifcapable floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2.0+1) from t6;
    }
  } {1 {integer overflow}}
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2.0+1) FROM t6
    }
  } 0.0
}
ifcapable !floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2+1) from t6;
    }
  } {1 {integer overflow}}
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2+1) FROM t6
    }
  } 0.0
}
if {[working_64bit_int]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
  } -9223372036854775805
}
ifcapable compound&&subquery {
  do_test func-18.15 {
    catchsql {
      SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
         SELECT 10 AS x);
    }
  }
if [{working_64bit_int}] {
    do_test func-18.16 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT 9223372036854775807 AS x UNION ALL
                 SELECT -10 AS x);
        }
    } {0 9223372036854775797}
    do_test func-18.17 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT -9223372036854775807 AS x UNION ALL
                 SELECT 10 AS x);
        }
    } {0 -9223372036854775797}
    do_test func-18.18 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT -9223372036854775807 AS x UNION ALL
                 SELECT -10 AS x);
        }
    } {1 {integer overflow}}
    do_test func-18.19 {
        catchsql {
            SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
        }
    } {0 -1}
    do_test func-18.20 {
        catchsql {
            SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
        }
    } {0 1}
    do_test func-18.21 {
        catchsql {
            SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
        }
    } {0 -1}
    do_test func-18.22 {
        catchsql {
            SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
        }
    } {0 1}
} ;# ifcapable compound&&subquery

# Integer overflow on abs()
if {
if {working_64bit_int} {
    do_test func-18.31 {
        catchsql {
            SELECT abs(-9223372036854775807);
        }
        {0 9223372036854775807}
    }
    do_test func-18.32 {
        catchsql {
            SELECT abs(-9223372036854775807-1);
        }
        {1 {integer overflow}}
    }
}
# The MATCH function exists but is only a stub and always throws an error.
# do_test func-19.1 {
    execsql {
        SELECT match(a,b) FROM t1 WHERE 0;
    }
    {} {}
} do_test func-19.2 {
    catchsql {
        SELECT 'abc' MATCH 'xyz';
    }
    {1 {unable to use function MATCH in the requested context}}
} do_test func-19.3 {
    catchsql {
        SELECT 'abc' NOT MATCH 'xyz';
    }
    {1 {unable to use function MATCH in the requested context}}
} do_test func-19.4 {
    catchsql {
        SELECT match(1,2,3);
    }
    {1 {wrong number of arguments to function match()}}
}
# Soundex tests.
#
if {(!catch {db eval {SELECT soundex('hello')}})} {
    set i 0
    foreach {name sdx} {
        euler  E460
        EULER  E460
        Euler  E460
        ellery E460
        gauss  G200
        ghosh  G200
    }


hilbert  H416
Heilbronn  H416
knuth  K530
kant  K530
Lloyd  L300
LADD  L300
Łukasiewicz  L222
Lissajous  L222
A  A000
12345  ?000
}

do_test func-20.$i {
    execsql {SELECT soundex($name)}
} $sdx
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
    catchsql {
        SELECT replace(1,2);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
    catchsql {
        SELECT replace(1,2,3,4);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
    execsql {
        SELECT typeof(replace("This is the main test string", NULL, "ALT"));
    }
} {null}
do_test func-21.4 {
    execsql {
        SELECT typeof(replace(NULL, "main", "ALT"));
    }
} {null}
do_test func-21.5 {
    execsql {
        SELECT typeof(replace("This is the main test string", "main", NULL));
    }
} {null}
do_test func-21.6 {
    execsql {
        SELECT replace("This is the main test string", "main", "ALT");
    }
} {null}
ifcapable tclvar {
  do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "$\{\text{string repeat A 29998}\}CC[\text{string repeat A 35537}]$"
    set ::rep "$\{\text{string repeat B 65536}\}$
    execsql {
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
    [expr 29998 + 2*65536 + 35537]
  }

  # Tests for the TRIM, LTRIM and RTRIM functions.
  #
  do_test func-22.1 {
    catchsql {SELECT trim(1,2,3)}
    } [1 {wrong number of arguments to function trim()}
  do_test func-22.2 {
    catchsql {SELECT ltrim(1,2,3)}
    } [1 {wrong number of arguments to function ltrim()}
  do_test func-22.3 {
    catchsql {SELECT rtrim(1,2,3)}
    } [1 {wrong number of arguments to function rtrim()}
  do_test func-22.4 {
    execsql {SELECT trim('  hi  ')}
    } {hi}
  do_test func-22.5 {
    execsql {SELECT ltrim('  hi  ')}
    } {{hi}}
  do_test func-22.6 {
    execsql {SELECT rtrim('  hi  ')}
    } {{ hi}}
  do_test func-22.7 {
    execsql {SELECT trim('  hi ,xyz')}
    } {{ hi }}
}
do_test func-22.8 {
  execsql {SELECT ltrim(' hi ','xyz');}
} {{ hi }}
do_test func-22.9 {
  execsql {SELECT rtrim(' hi ','xyz');}
} {{ hi }}
do_test func-22.10 {
  execsql {SELECT trim('xyz hi zzy','xyz');}
} {{ hi }}
do_test func-22.11 {
  execsql {SELECT ltrim('xyz hi zzy','xyz');}
} {{ hi zzy}}
do_test func-22.12 {
  execsql {SELECT rtrim('xyz hi zzy','xyz');}
} {{xyz hi }}
do_test func-22.13 {
  execsql {SELECT trim(' hi ','');}
} {{ hi }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
  do_test func-22.14 {
    execsql {SELECT hex(trim(x'c280e1bfbff48fbf6869',x'6162e1bfbfc280'))}
  } {F48FBFBF6869}
do_test func-22.15 {
    execsql {SELECT hex(trim(x'6869c280e1bfbff48fbf61',
      x'6162e1bfbfc280f48fbbf'))}
  } {6869}
do_test func-22.16 {
    execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'))};
  } {CEB2CEB3}
}
do_test func-22.20 {
  execsql {SELECT typeof(trim(NULL));}
} {null}
do_test func-22.21 {
  execsql {SELECT typeof(trim(NULL,'xyz'));}
} {null}
do_test func-22.22 {
  execsql {SELECT typeof(trim('hello',NULL));}
} {null}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
  do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
      SELECT legacy_count() FROM t6;
    }
do_test func-24.1 {
 execsql {
   SELECT group_concat(t1) FROM tbl1
 }
} {this,program,is,free,software}
do_test func-24.2 {
 execsql {
   SELECT group_concat(t1,' ') FROM tbl1
 }
} {{this program is free software}}
do_test func-24.3 {
 execsql {
   SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
 }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
 execsql {
   SELECT group_concat(NULL,t1) FROM tbl1
 }
} {}
do_test func-24.5 {
 execsql {
   SELECT group_concat(t1,NULL) FROM tbl1
 }
} {thisprogramisfreesoftware}
do_test func-24.6 {
 execsql {
   SELECT 'BEGIN-''||group_concat(t1) FROM tbl1
 }
} {BEGIN-this,program,is,free,software}

Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
  append midargs ,'/i'
  append midres /i
set result [md5 \\
"this${midres}midres]program${midres]is${midres]free${midres]software${midres}"
set sql "SELECT md5sum(t1$midargs) FROM tbl1"
do_test func-24.7.$i {
    db eval $::sql
} $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
    } {,program,is,free,software}
do_test func-24.9 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
    } {,,,,software}
}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
    } {program,is,free,software}
do_test func-24.11 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
    } {software}
do_test func-24.12 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN ''
        WHEN 'program' THEN null ELSE t1 END) FROM tbl1
    } {,is,free,software}
}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
    execsql (SELECT test_isolation(t1,t1) FROM tbl1)
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} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
  abuse_create_function db
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
  set a {}
  for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
    lappend a $i
  }
  db eval "
    SELECT
    "
    } {{}}
  do_test func-26.3 {
    set a {}
    for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
      lappend a $i
    }
    catchsql "
      SELECT
      "
      } {1 {too many arguments on function

    do_test func-26.4 {
      set a {}
      for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
        lappend a $i
      }
      catchsql "
        SELECT
        "
        {
        }
do_test func-26.5 {
  catchsql "
    SELECT
    
  "
  do_test func-26.5 {
  catchsql "
    SELECT
  "
  do_test func-26.6 {
  catchsql "
    SELECT
  "
  do_test func-27.1 {
  catchsql {SELECT coalesce()}
}
INSERT INTO t28(x) VALUES(1);
{}
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
  } {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
  } {1}
do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
  } {integer null real blob text}
  if {[permutation] != "mmap"} {
    do_test func-29.4 {
      set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
      if {$x>100} {set x many}
      set x
    } {many}
  }
  do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29}
    } {1000009}
  do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
  } {1}
do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}
# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
  a       a
  aaron   aaron
  abaissiez abaissiez
  abandon abandon
  abandoned abandon
  abase   abas
  abash   abash
  abate   abat
  abated  abat
  abatement abat
  abatements abat
  abates  abat
  abbess  abbess
  abbey   abbei
  abbeys  abbei
  abominable abomin
  abbot   abbot
  abbots  abbot
  abbreviated abbrevi
  abed    ab
  abel    abel
  aberga  aberga
  abergavenny abergavenni
  abet    abet
  abetting abet
  abhominable abhomin
  abhor   abhor
  abhorr  abhorr
  abhorred abhor
  abhorring abhor
  abhors  abhor
  abhorson abhorson
  abide   abid
  abides  abid
}
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abject    abject
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abler     abler
aboard    aboard
abode     abod
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aboding   abod
abominable abomin
abominably abomin
abominations abomin
abortive  abort
abortives abort
abound    abound
abounding abound
about     about
above     abov
abr       abr
abraham  abraham
abram     abram
abreast   abreast
abridg    abridg
abridge   abridg
abridged  abridg
abridgment abridg
abroach   abroach
abroad    abroad
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bards  bard
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barefac  barefac
barefaced  barefac
barefoot  barefoot
bareheaded  barehead
barely  bare
bareness  bare
barful  bar
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baring  bare
bark  bark
barking  bark
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barks  bark
barky  barki
barley  barlei
barm  barn
barn  barn
barnacles  barnacl
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barrow  barrow
bars  bar
barson  barson
barter  barter
bartholomew  bartholomew
bas  ba
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baseless  baseless
basely  base
baseness  base
baser  baser
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basest  basest
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basilisco  basilisco
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basilisks  basilisk
basimecu  basimecu
basin  basin
basingstoke  basingstok
basins  basin
basis  basi
bask  bask
basket  basket
baskets  basket
bass  bass
bassanio  bassanio
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# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
  DELETE FROM t1_term;
  DELETE FROM t1_content;
  INSERT INTO t1(word) VALUES($pfrom);
  SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

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** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SINGLETHREAD</dt>
** ^This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SINGLETHREAD</dt>
** ^This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^ ^This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt> **<dd>^This option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:
 **<ul> **<li> [sqlite3_memory_used()] **<li> [sqlite3_memory_highwater()] **<li> [sqlite3_soft_heap_limit64()] **<li> [sqlite3_status()] **</ul>)^ **^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default. **</dd> **
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt> **<dd>^This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16. The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.
 **^SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads.
 **^SQLite will never require a scratch buffer that is more than 6 times the database page size. ^If SQLite needs needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.</dd> **
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt> **<dd>^This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation. This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option. There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N). The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. ^The page header size is 20 to 40 bytes depending on the host architecture. ^It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory. ^SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>

**

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

**

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>  
** <dd> ^(This option takes two arguments that determine the default  
** memory allocation for the lookaside memory allocator on each  
** [database connection]. The first argument is the  
** size of each lookaside buffer slot and the second is the number of  
** slots allocated to each database connection.)^  ^(This option sets the  
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]  
** verb to [sqlite3_db_config()] can be used to change the lookaside  
** configuration on individual connections.)^ </dd>  
**  
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>  
** <dd> ^(This option takes a single argument which is a pointer to  
** an [sqlite3_pcache_methods2] object. This object specifies the interface  
** to a custom page cache implementation.)^  ^SQLite makes a copy of the  
** object and uses it for page cache memory allocations.</dd>  
**  
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>  
** <dd> ^(This option takes a single argument which is a pointer to an  
** [sqlite3_pcache_methods2] object. SQLite copies of the current  
** page cache implementation into that object.)^ </dd>  
**  
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>  
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite  
** global [error log].  
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a  
** function with a call signature of void(*)(void*,int,const char*),  
** and a pointer to void. ^If the function pointer is not NULL, it is  
** invoked by [sqlite3_log()]) to process each logging event. ^If the  
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.  
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is  
** passed through as the first parameter to the application-defined logger  
** function whenever that function is invoked. ^The second parameter to  
** the logger function is a copy of the first parameter to the corresponding  
** [sqlite3_log()] call and is intended to be a [result code] or an  
** [extended result code]. ^The third parameter passed to the logger is  
** log message after formatting via [sqlite3_snprintf()].  
** The SQLite logging interface is not reentrant; the logger function  
** supplied by the application must not invoke any SQLite interface.  
** In a multi-threaded application, the application-defined logger  
** function must be threadsafe. </dd>  
**  
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI</dt>  
** <dd> This option takes a single argument of type int. If non-zero, then  
** URI handling is globally enabled. If the parameter is zero, then URI handling  
** is globally disabled. If URI handling is globally enabled, all filenames  
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or  
** specified as part of [ATTACH] commands are interpreted as URIs, regardless  
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
connection is opened. If it is globally disabled, filenames are
only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
database connection is opened. By default, URI handling is globally
disabled. The default value may be changed by compiling with the
[SQLITE_USE_URI] symbol defined.

[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]

This option takes a single integer argument which is interpreted as
a boolean in order to enable or disable the use of covering indices for
full table scans in the query optimizer. The default setting is determined
by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
if that compile-time option is omitted.
The ability to disable the use of covering indices for full table scans
is because some incorrectly coded legacy applications might malfunction
when the optimization is enabled. Providing the ability to
disable the optimization allows the older, buggy application code to work
without change even with newer versions of SQLite.

[[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]

These options are obsolete and should not be used by new code.
They are retained for backwards compatibility but are now no-ops.

[[SQLITE_CONFIG_SQLLOG]]

This option is only available if sqlite is compiled with the
[SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
The second should be of type (void*). The callback is invoked by the library
in three separate circumstances, identified by the value passed as the
fourth parameter. If the fourth parameter is 0, then the database connection
passed as the second argument has just been opened. The third argument
points to a buffer containing the name of the main database file. If the
fourth parameter is 1, then the SQL statement that the third parameter
points to has just been executed. Or, if the fourth parameter is 2, then
the connection being passed as the second parameter is being closed. The
third parameter is passed NULL. In this case. An example of using this
configuration option can be seen in the "test_sqllog.c" source file in
the canonical SQLite source tree.

[[SQLITE_CONFIG_MMAP_SIZE]]

[[SQLITE_CONFIG_MMAP_SIZE]] takes two 64-bit integer (sqlite3_int64) values
that are the default mmap size limit (the default setting for
[PRAGMA mmap_size]) and the maximum allowed mmap size limit.
The default setting can be overridden by each database connection using
either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction | Volume Hedged
--- | ---
1 | 24990
2500 - 54995000 | 5000
5500 - 64996000 |

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com):

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.
Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!);

Here is the information on staffing and outside services. Call if you need anything else.

Jim

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
- 111201R.xls
- 111201.xls

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com','all_ena_egm_eim@enron.com','EWS Brown Bag','MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: Subject: About St Pauls

"<<About St Pauls.url>>

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira;

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,

JMForney
Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.................................

Thanks
----------------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM -----------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',
‘Change to Stack Manager’. Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: ', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', ''). The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM  To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
-------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

Open Source Used In OnPrem2.1 2.2 26214
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,' , 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,' , 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info,' '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time) I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,
Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');;
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');;
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2), '2001 Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');;
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

ds
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks;');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', "'hey big guy.....check this out.....

www.gorelieberman-2000.com/");

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', ", 'Jacques,

I sent you a fax of Kevin Kolb"s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip");
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???',

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards
Diana Seifert
EOL PCG);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document>
- 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:
running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Relaint
Steve McGinn
713-207-4000

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

----- Load Schedule ----

$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.'
John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I''m seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week''s Lite Bytz presentation will feature the following TOOLZ speaker:
Richard McDougall
Solaris 8
Thursday, June 7, 2001
If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday,
*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.
Click below for more details.
http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
COMMIT;
}
} {}
###############################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
###############################################################################
do_test fts3ac-1.2 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark'
}
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'susan'
}
} {24 40}
do_test fts3ac-1.4 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts3ac-1.5 {
execsql {

Open Source Used In OnPrem2.1 2.2 26226


SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts3ac-1.6 {
execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
}
} {}
do_test fts3ac-1.7 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts3ac-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 \[2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3\]}
do_test fts3ac-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 \[2 0 42 3 2 1 54 8 3 1 54 8\]}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 \[2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3\]}
do_test fts3ac-2.4 {
execsql {
SELECT rowid, offsets(email) FROM email
  WHERE subject MATCH 'gas reminder'
}
} {20 [2 0 42 3 2 1 54 8 ]}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH 'gas reminder'
  }
} {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3 ]}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7 ]}
do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH '"child product"
  }
} {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 ]}

# Snippet generator tests
#
do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b>here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b>/service<b>...</b>}}
do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'deal sheet potential reuse'
do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<','>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<Deal>> <<Sheet>> asset base for <<potential>> <<reuse>>/ licensing
  Contract negotiations }}
do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<','>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{Re: <<First>> Polish Deal! Congrats! <<Things>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{...chris.chris@enron.com'' chris...bet this is next
to...bet this is next...about going here Christmas
eve...}}
do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
} {{Erin:

>Pursuant to your request, attached are the Schedule to the ISDA Master Agreement,
together...}}
do_test fts3ac-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.davis@enron.com...3; No ancillary schedules awarded...detected in
Load schedule.

LOG...}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<Deal>> <<Sheet>> asset base for <<potential>> <<reuse>>/ licensing
  Contract negotiations }}
WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@enron.com...31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

do_test fts3ac-5.2 {
 execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@enron.com...31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

#---------------------------------------------------------------
# Test a problem reported on the mailing list.
#
# do_test fts3ac-6.1 {
# execsql {
#   CREATE VIRTUAL TABLE ft USING fts3(one, two);
#   INSERT INTO ft VALUES(", 'foo\');
#   INSERT INTO ft VALUES('foo\', 'foo\');
#   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo\';
# }
#} {{1 0 0 3} {0 0 0 3 0 0 0 3}}
do_test fts3ac-6.2 {
 execsql {
   DELETE FROM ft WHERE one = 'foo\';
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo\';
 }
} {{1 0 0 3}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">Copyright Release for Contributions To SQLite</h1>
</body>
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the SQLite software
that I may cause to be published on that website in the future.
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to the detriment of my heirs and successors. I intend this
dedication to be an overt act of relinquishment in perpetuity of
all present and future rights to the SQLite software under copyright
law.
</p></li>

<li><p>
To the best of my knowledge and belief, the changes and enhancements that
I have contributed to SQLite are either originally written by me
or are derived from prior works which I have verified are also
in the public domain and are not subject to claims of copyright
by other parties.
</p></li>

<li><p>
To the best of my knowledge and belief, no individual, business, organization,
government, or other entity has any copyright interest
in the SQLite software as it existed on the
SQLite website as of the date on the signature line below.
</p></li>

<li><p>
I agree never to publish any additional information
to the SQLite website (by CVS, email, scp, FTP, or any other means) unless
that information is an original work of authorship by me or is derived from
prior published versions of SQLite.
I agree never to copy and paste code into the SQLite code base from
other sources.
I agree never to publish on the SQLite website any information that
would violate a law or breach a contract.
</p></li>

</ol>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td><td valign="top" align="left">
Date:
</td></tr>
</table>
</p>
Found in path(s):
No license file was found, but licenses were detected in source scan.

)print dup( )cvs print

Found in path(s):
* {cvx $error/errorname get(Error

1.2706 hk2-utils 2.5.0-b32

1.2706.1 Available under license :
CDDL + GPLv2 with classpath exception
https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html
A business-friendly OSS license

1.2707 gmp 6.0.0 15.el7

1.2707.1 Available under license :
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Version 2, June 1991

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jar/org/springframework/expression/Operation.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/NullLiteral.java
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jar/org/springframework/expression/spel/standard/TokenKind.java
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| _/[ | ]|||`
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| | \___| ||`
i.e., he could execute anyone!"
```

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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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General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is `Less` protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(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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@subheading END OF TERMS AND CONDITIONS

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* /opt/cola/permits/1111308625_1606898564.96/0/auto-service-1-0-rc4-sources-1-jar/com/google/auto/service/AutoService.java
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1.2729 string-template 4.0.2

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*/

/** Build an AST from a single StringTemplate template */

parser grammar STParser;

options {
    tokenVocab=STLexer;
    TokenLabelType=CommonToken;
    output=AST;
    ASTLabelType=CommonTree;
}

tokens {
    EXPR; OPTIONS; PROP; PROP_IND; INCLUDE; INCLUDE_IND; EXEC_FUNC; INCLUDE_SUPER;
    INCLUDE_SUPER_REGION; INCLUDE_REGION; TO_STR; LIST; MAP; ZIP; SUBTEMPLATE; ARGS;
    ELEMENTS; REGION; NULL; INDENTED_EXPR;
}

@header {
    package org.stringtemplate.v4.compiler;
    import org.stringtemplate.v4.misc.ErrorManager;
    import org.stringtemplate.v4.misc.ErrorType;
}

@members {
    ErrorManager errMgr;
    Token templateToken;
    public STParser(TokenStream input, ErrorManager errMgr, Token templateToken) {
        this(input);
        this.errMgr = errMgr;
        this.templateToken = templateToken;
    }
}
protected Object recoverFromMismatchedToken(IntStream input, int ttype, BitSet follow) throws RecognitionException {
    throw new MismatchedTokenException(ttype, input);
}

@rulecatch {
    catch (RecognitionException re) { throw re; }
}

templateAndEOF : template EOF -> template? ;

template : element* ;

element : [{input.LT(1).getCharPositionInLine()==0}? INDENT? COMMENT NEWLINE -> // throw away
    INDENT singleElement -> ^(INDENTED_EXPR INDENT singleElement?) // singleElement is optional to handle
    singleElement |
    compoundElement |
    TEMPLATE |
    ifstat |
    region |
    ;

elemTag :
    LDELIM expr ( ';' exprOptions )? RDELIM
    -> ^(EXPR[$LDELIM,"EXPR"] expr exprOptions?)
    ;

region @init {Token indent=null;}
    :=INDENT? x=LDELIM '@' ID RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
    template |
    INDENT? LDELIM '@end' RDELIM |
    // kill \n for <@end> on line by itself if multi-line embedded region
    // line by itself if multi-line embedded region
    ({$region.start.getLine()!=$input.LT(1).getLine()}?=> NEWLINE)? |
    -> {indent!=null}?
subtemplate
:lc='{' (ids+= ID ( ',' ids+= ID )* '|' )? template INDENT? '}
// ignore final INDENT before } as it's not part of outer indent
-> ^(REGION[$x] ID template?) ^(REGION[$x] ID template?)

ifstat
@init {Token indent=null;}
:i=INDENT? LDELIM 'if' '(' c1=conditional ')' RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
t1=template
( INDENT? LDELIM 'elseif' '(' c2+=conditional ')' RDELIM t2+=template )*
( INDENT? LDELIM 'else' RDELIM t3=template )?
INDENT? endif= LDELIM 'endif'
RDELIM
// kill \n for <endif> on line by itself if multi-line IF
({$ifstat.start.getLine()!=input.LT(1).getLine()}?=> NEWLINE)?
-> {indent!=null}?
^(INDENTED_EXPR $i ^(REGION[$x] ID template?) ^(REGION[$x] ID template?)
-> ^(REGION[$x] ID template?)

conditional
scope {
 boolean inside;
}
: andConditional ( ||^ andConditional )*

andConditional : notConditional ( &&^ notConditional )*

notConditional
:&&!^ notConditional
|memberExpr

notConditionalExpr
:(ID->ID)
(p='.' prop=ID-> ^(PROP[$p,"PROP"] $notConditionalExpr $prop)
|p='.' (' mapExpr ')-> ^(PROP_IND[$p,"PROP_IND"] $notConditionalExpr mapExpr)
)*

exprOptions : option ( ',' option )* -> ^(OPTIONS option*)

option
@init {  
String id = input.LT(1).getText();  
String defVal = Compiler.defaultOptionValues.get(id);  
boolean validOption = Compiler.supportedOptions.get(id)!=null;  
}  
:ID  
{  
if ( !validOption ) {  
    errMgr.compileTimeError(ErrorType.NO_SUCH_OPTION, templateToken, $ID, $ID.text);  
}  
}  
(’=’ exprNoComma -> {validOption}? ^(’=’ ID exprNoComma)  
-
)  
if ( defVal==null ) {  
errMgr.compileTimeError(ErrorType.NO_DEFAULT_VALUE, templateToken, $ID);  
}  
-> {validOption&&defVal!=null}?  
^(EQUALS["="] ID STRING[$ID,'"'+defVal+'"'])  
->  
);  
exprNoComma  
:memberExpr  
( ’:’ mapTemplateRef-> ^(MAP memberExpr mapTemplateRef)  
|-> memberExpr  
)  
);  
expr : mapExpr  

// more complicated than necessary to avoid backtracking, which ruins  
// error handling  
mapExpr  
:memberExpr  
( (c=’,’ memberExpr)+ col=’:’ mapTemplateRef  
-> ^(ZIP[$col] ^(ELEMENTS memberExpr+) mapTemplateRef)  
|-> memberExpr  
)  
( {if ($x!=null) $x.clear();} // don't keep queueing x; new list for each iteration  
col=’:’ x+=mapTemplateRef ({$c==null}?=> ’,’ x+=mapTemplateRef )*  
-> ^(MAP[$col] $mapExpr $x+)  
)*  
);
/**
expr:template(args) apply template to expr
expr:{arg | ...} apply subtemplate to expr
expr:(e)(args) convert e to a string template name and apply to expr
*/

mapTemplateRef:
 :ID ( \ ' args ' ) \+(INCLUDE ID args?)
| subtemplate
| lp=(' mapExpr rp=') ( \ ' argExprList? ' ) \+(INCLUDE_IND mapExpr argExprList?)
|

memberExpr:
 :\(includeExpr->includeExpr\)
(p=:. ID-> \+(PROP[Sp,"PROP"] $memberExpr ID)
| [p=:. ( \ ' mapExpr ' )-> \+(PROP_IND[Sp,"PROP_IND"] $memberExpr mapExpr)\]*
|

includeExpr:
 :options {k=2;} // prevent full LL(*), which fails, falling back on k=1; need k=2
 :\{Compiler.funcs.containsKey(input.LT(1).getText())\}? // predefined function
ID ( \ ' expr? ' )\-> \+(EXEC_FUNC ID expr?)
| [super\'. ID ( \ ' args ' )\-> \+(INCLUDE_SUPER ID args?)
| ID ( \ ' args ' )\-> \+(INCLUDE ID args?)
| [\'@\' super\'. ID ( \ ' rp='\)\-> \+(INCLUDE_SUPER_REGION ID)
| [\'@\' ID ( \ ' rp='\)\-> \+(INCLUDE_REGION ID)
| primary
|

primary:
 :ID
| STRING
| TRUE
| FALSE
| subtemplate
| list
| [[\$conditional.size()>0]? => (\!' conditional ')'!)
| [[\$conditional.size()==0]? => lp=(' expr ')
| (\!' argExprList? '\) \+(INCLUDE_IND[Slp] expr argExprList?)
| \+(TO_STR[Slp] expr)
|
args:argExprList
| namedArg ( \ , namedArg )\* (\!' ...'? \-> namedArg+ '...'?
| \'
| ...
argExprList : arg (',', arg )* -> arg+ ;

arg : exprNoComma ;
	namedArg : ID '=' arg -> ^('=' ID arg) ;

list:{input.LA(2)==RBRACK}? // hush warning; [] special case
lb='[' ')']' -> LIST[$lb]
[lb='[' listElement (',', listElement )* ')'] -> ^(LIST[$lb] listElement*) ;

listElement : exprNoComma | -> NULL ;

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* /opt/cola/permits/1139182995_1614418424.82/0/stringtemplate-4-0-2-sources-2-
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* /opt/cola/permits/1139182995_1614418424.82/0/stringtemplate-4-0-2-sources-2-jar/org/stringtemplate/v4/misc/ErrorBuffer.java
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* /opt/cola/permits/1139182995_1614418424.82/0/stringtemplate-4-0-2-sources-2-jar/org/stringtemplate/v4/Interpreter.java
* /opt/cola/permits/1139182995_1614418424.82/0/stringtemplate-4-0-2-sources-2-jar/org/stringtemplate/v4>DateRenderer.java

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import java.util.HashMap;
import java.util.List;
import java.util.ArrayList;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
import java.io.File;
}

@lexer::header {
/*
*/

grammar Group;

tokens {
TRUE='true'; FALSE='false';
}

@header {
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 */

@header {
/*
*/

packe...
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*/
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.*;
import org.stringtemplate.v4.misc.*;
import java.io.File;
}

@members {
public STGroup group;

public void displayRecognitionError(String[] tokenNames,
    RecognitionException e)
{
    String msg = getErrorMessage(e, tokenNames);
    group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}

public String getSourceName() {
    String fullFileName = super.getSourceName();
    File f = new File(fullFileName); // strip to simple name
    return f.getName();
}

public void error(String msg) {
    NoViableAltException e = new NoViableAltException("", 0, 0, input);
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
recover(input, null);
}
}

@lexer::members {
public STGroup group;

public void reportError(RecognitionException e) {
    String msg = null;
    if (e instanceof NoViableAltException) {
        msg = "invalid character "+(char)input.LA(1)+"";
    }
    else if (e instanceof MismatchedTokenException && ((MismatchedTokenException)e).expecting=="" ) {
        msg = "unterminated string";
    }
    else {
        msg = errorMessage(e, getTokenNames());
    }
    group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
public String getSourceName() {
    String fullFileName = super.getSourceName();
    File f = new File(fullFileName); // strip to simple name
    return f.getName();
}
}

oldStyleHeader // ignore but lets us use this parser in AW for both v3 and v4
:
"group" ID (" implements" ID (\',\' ID)* )?
('import' ID ('.' ID)* // might be a.b.c.d*)*
"def"[prefix]|
;
groupName returns [String name]
@init {StringBuilder buf = new StringBuilder();}
:a=ID {buf.append($a.text);} (\'.\' a=ID {buf.append($a.text);})*

/** Match template and dictionary defs outside of (...)+ loop in group.
 *  The key is catching while still in the loop; must keep prediction of
 *  elements separate from "stay in loop" prediction.
 */
def[String prefix] : templateDef[prefix] | dictDef ;
catch[RecognitionException re] {
  // pretend we already saw an error here
  state.lastErrorIndex = input.index();
  error("garbled template definition starting at"'+input.LT(1).getText()+"'"');
}

templateDef[String prefix]
@init {
  String template=null;
  int n=0;  // num char to strip from left, right of template def
}
:@'@' enclosing=ID \'.\' name=ID \'(\')'
|name=ID \'(\' formalArgs \')'
|'
|''::= 
|{Token templateToken = input.LT(1);}
|STRING       {template=$STRING.text; n=1;}
|BIGSTRING    {template=$BIGSTRING.text; n=2;}
|BIGSTRING_NO_NL {template=$BIGSTRING_NO_NL.text; n=2;}
|[
|  template = "";
|  String msg = "missing template at"'+input.LT(1).getText()+"'"';
|  NoViableAltException e = new NoViableAltException("", 0, 0, input);
|  group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
| ]
|}
|
| if ( $name.index >= 0 ) { // if ID missing
| template = Misc.strip(template, n);
| String templateName = $name.text;
| if ( prefix.length()>=0 ) templateName = prefix+"'/"+$name.text;
| group.defineTemplateOrRegion(templateName, $enclosing.text, templateToken,
| template, $name, $formalArgs.args);
| }
|}
| alias=ID ' ::= ' target=ID {group.defineTemplateAlias($alias, $target);} |

formalArgs returns [List<FormalArgument> args = new ArrayList<FormalArgument>()]
scope {
    boolean hasOptionalParameter;
}
@init { $formalArgs::hasOptionalParameter = false; }
:formalArg[$args] (', ' formalArg[$args])* |
|
|
formalArg[List<FormalArgument> args]
:ID
('= ' a=(STRING|ANONYMOUS_TEMPLATE[true] 'false') {$formalArgs::hasOptionalParameter = true;} |
| if ($formalArgs::hasOptionalParameter) {
    group.errMgr.compileTimeError(ErrorType.REQUIRED_PARAMETER_AFTER_OPTIONAL,
        null, $ID);
    }
|
| {args.add(new FormalArgument($ID.text, $a));}
|
|

/*
suffix returns [int cardinality=FormalArgument.REQUIRED] |
    : OPTIONAL |
    | STAR |
    | PLUS |
    |
    */

dictDef
:ID '::=' 'dict |
    |
    if ( group.rawGetDictionary($ID.text)!=null ) {
    group.errMgr.compileTimeError(ErrorType.MAP_REDEFINITION, null, $ID);
    }
    else if ( group.rawGetTemplate($ID.text)!=null ) {
    group.errMgr.compileTimeError(ErrorType.TEMPLATE_REDEFINITION_AS_MAP, null, $ID);
    }
    else {
    group.defineDictionary($ID.text, $dict.mapping);
    }
    |
dict returns [Map<String, Object> mapping]
@init {mapping=new HashMap<String, Object>();}
: ['dictPairs[mapping] ']
;

dictPairs[Map<String, Object> mapping]
    :keyValuePair[mapping]
        (',' keyValuePair[maping])* (',' defaultValuePair[maping])?
    [defaultValuePair[maping]
    ;
    catch[RecognitionException re] {error("missing dictionary entry at "+input.LT(1).getText()+");}
    };

defaultValuePair[Map<String, Object> mapping]
    :default' : keyValue {mapping.put(STGroup.DEFAULT_KEY, $keyValue.value);}
    ;

keyValuePair[Map<String, Object> mapping]
    :STRING : keyValue {mapping.put(Misc.replaceEscapes(Misc.strip($STRING.text, 1)), $keyValue.value);}
    ;

keyValue returns [Object value]
    :BIGSTRING		{$value = group.createSingleton($BIGSTRING);}
    [BIGSTRING_NO_NL{$value = group.createSingleton($BIGSTRING_NO_NL);}
    [ANONYMOUS_TEMPLATE{$value = group.createSingleton($ANONYMOUS_TEMPLATE);}
    [STRING{$value = Misc.replaceEscapes(Misc.strip($STRING.text, 1));}
    [TRUE{$value = true;}
    [FALSE{$value = false;}
    [{input.LT(1).getText().equals("key")}?=> ID
    {$value = STGroup.DICT_KEY;}
    ;
    catch[RecognitionException re] {error("missing value for key at "+input.LT(1).getText()+");}
    };

ID:('a'..'z'|'A'..'Z'|_) ('a'..'z'|'A'..'Z'|0..'9'|['-']|_)*
;

STRING
    :""
    ('\\"'"
    [\\" ~""
    |
    String msg = "\n in string";
    NoViableAltException e = new NoViableAltException("", 0, 0, input);
    group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
// don't match '}' here; our little {...} scanner loop matches it
// to terminate.
;

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*/

tree grammar CodeGenerator;
options {
  tokenVocab=STParser;
  ASTLabelType=CommonTree;
}

@header {
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*/
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;

public CodeGenerator(TreeNodeStream input, ErrorManager errMgr, String name, String template, Token templateToken) {
  this(input, new RecognizerSharedState());
}
this.errMgr = errMgr;
this.outernmostTemplateName = name;
this.template = template;
this.templateToken = templateToken;
}

// convenience funcs to hide offensive sending of emit messages to
// CompilationState temp data object.

public void emit1(CommonTree opAST, short opcode, int arg) {
    $template::state.emit1(opAST, opcode, arg);
}
public void emit1(CommonTree opAST, short opcode, String arg) {
    $template::state.emit1(opAST, opcode, arg);
}
public void emit2(CommonTree opAST, short opcode, int arg, int arg2) {
    $template::state.emit2(opAST, opcode, arg, arg2);
}
public void emit2(CommonTree opAST, short opcode, String s, int arg2) {
    $template::state.emit2(opAST, opcode, s, arg2);
}
public void emit(short opcode) {
    $template::state.emit(opcode);
}
public void emit(CommonTree opAST, short opcode) {
    $template::state.emit(opAST, opcode);
}
public void insert(int addr, short opcode, String s) {
    $template::state.insert(addr, opcode, s);
}
public void setOption(CommonTree id) {
    $template::state.setOption(id);
}
public void write(int addr, short value) {
    $template::state.write(addr, value);
}
public int address() { return $template::state.ip; }
public void func(CommonTree id) { $template::state.func(templateToken, id); }
public void refAttr(CommonTree id) { $template::state.refAttr(templateToken, id); }
public int defineString(String s) { return $template::state.defineString(s); }
}

templateAndEOF : template[null,null] EOF; // hush warning; ignore

template[String name, List<FormalArgument> args] returns [CompiledST impl]
scope {
    CompilationState state; // automatically get a new state pointer per invocation
}
@init {
$template::state = new CompilationState(errMgr, name, input.getTokenStream());
$impl = $template::state.impl;
if ( $template.size() == 1 ) outermostImpl = $impl;
$impl.defineFormalArgs($args); // make sure args are defined prior to compilation
if ( name!=null && name.startsWith(Compiler.SUBTEMPLATE_PREFIX) ) {
  $impl.addArg(new FormalArgument("i"));
  $impl.addArg(new FormalArgument("i0"));
}
$impl.template = template; // always forget the entire template; char indexes are relative to it
}
} // finish off the CompiledST result
  if ( $template::state.stringtable!=null ) $impl.strings = $template::state.stringtable.toArray();
  $impl.codeSize = $template::state.ip;
} ;

chunk :
element*
  :

element :
  *(INDENTED_EXPR INDENT compoundElement[$INDENT]) // ignore indent in front of IF and region blocks
  [compoundElement=null]
  *[INDENTED_EXPR INDENT $template::state.indent($INDENT);] singleElement
  [$template::state.emit(Bytecode.INSTR_DEDENT);]
  [singleElement
  ;

  singleElement :
  exprElement
  [TEXT
  { if ( $TEXT.text.length()>0 ) {
    emit1($TEXT,Bytecode.INSTR_WRITE_STR, $TEXT.text);
  }
  }

  [NEWLINE {emit(Bytecode.INSTR_NEWLINE);}
  ;

  compoundElement[CommonTree indent]
  :ifstat[indent]
  [region[indent]
  ;

  exprElement
@init { short op = Bytecode.INSTR_WRITE; }

:^(
EXPR expr (exprOptions {op=Bytecode.INSTR_WRITE_OPT;})? )?

{ /*
CompilationState state = $template::state;
CompiledST impl = state.impl;
if ( impl.instrs[state.ip-1] == Bytecode.INSTR_LOAD_LOCAL ) {
impl.instrs[state.ip-1] = Bytecode.INSTR_WRITE_LOCAL;
} else {
emit($EXPR, op);
}
*/
emit($EXPR, op);
}

;:

region[CommonTree indent] returns [String name]
@init {
if ( indent!=null ) $template::state.indent(indent);
}
@after {
if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
:^(
REGION ID
{$name = STGroup.getMangledRegionName(outermostTemplateName, $ID.text);}
template[$name,null]
{
CompiledST sub = $template.impl;
    sub.isRegion = true;
    sub.regionDefType = ST.RegionType.EMBEDDED;
    sub.templateDefStartToken = $ID.token;
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
emit2($start, Bytecode.INSTR_NEW, $region.name, 0);
emit($start, Bytecode.INSTR_WRITE);
}
)

;:

subtemplate returns [String name, int nargs]
@init {
    $name = Compiler.getNewSubtemplateName();
    List<FormalArgument> args = new ArrayList<FormalArgument>();
}
:^(
SUBTEMPLATE
(^ARGS (ID {args.add(new FormalArgument($ID.text));})+)*)
{$nargs = args.size();}
template[$name, args]
{
    CompiledST sub = $template.impl;
    sub.isAnonSubtemplate = true;
    sub.templateDefStartToken = $SUBTEMPLATE.token;
    sub.ast = $SUBTEMPLATE;
    sub.ast.setUnknownTokenBoundaries();
    sub.tokens = input.getTokenStream();
    //sub.dump();
    outermostImpl.addImplicitlyDefinedTemplate(sub);
}

ifstat[CommonTree indent]
@init {
/** Tracks address of branch operand (in code block). It's how
 * we backpatch forward references when generating code for IFs.
 */
    int prevBranchOperand = -1;
/** Branch instruction operands that are forward refs to end of IF.
 * We need to update them once we see the endif.
 */
    List<Integer> endRefs = new ArrayList<Integer>();
    if (indent!=null) $template::state.indent(indent);
}
@after {
    if (indent!=null) $template::state.emit(Bytecode.INSTR_DEDENT);
}

^i='if' conditional
{
    prevBranchOperand = address()+1;
    emit1($i, Bytecode.INSTR_BRF, -1); // write placeholder as branch target
}
chunk
^eif='elseif'
{
    endRefs.add(address()+1);
    emit1($eif, Bytecode.INSTR_BR, -1); // br end
    // update previous branch instruction
    write(prevBranchOperand, (short)address());
    prevBranchOperand = -1;
}
ec=conditional
{
    prevBranchOperand = address()+1;
    // write placeholder as branch target
    emit1($ec.start, Bytecode.INSTR_BRF, -1);
chunk
)*)
(^el='else'
{
  endRefs.add(address()+1);
  emit1($el, Bytecode.INSTR_BR, -1); // br end
  // update previous branch instruction
  write(prevBranchOperand, (short)address());
  prevBranchOperand = -1;
}
chunk
)
)?
)
{
  if ( prevBranchOperand>=0 ) {
    write(prevBranchOperand, (short)address());
    }
    for (int opnd : endRefs) write(opnd, (short)address());
  }
;

conditional
:^('||' conditional conditional)
  {emit(Bytecode.INSTR_OR);}
|^('&&' conditional conditional)
  {emit(Bytecode.INSTR_AND);}
|^('!' conditional)
  {emit(Bytecode.INSTR_NOT);}
|expr // not all expr are valid, but reuse code gen (parser restricts syntax)
  :

exprOptions : {emit(Bytecode.INSTR_OPTIONS);} ^(OPTIONS option*) ;

option : ^('=' ID expr) {setOption($ID);} ;

expr
@init {int nt = 0, ne = 0;}
:^ ZIP ^ (ELEMENTS (expr {ne++;})+) mapTemplateRef[ne])
  {emit1($ZIP, Bytecode.INSTR_ZIP_MAP, ne);}
|^ (MAP expr (mapTemplateRef[1] {nt++;})+)
  {
    if ( nt>1 ) emit1($MAP, nt>1?Bytecode.INSTR_ROT_MAP:Bytecode.INSTR_MAP, nt);
    else emit($MAP, Bytecode.INSTR_MAP);
  }
|prop
|includeExpr
;
prop: ^(PROP expr ID) {emit1($PROP, Bytecode.INSTR_LOADPROP, $ID.text);} 
\[ ^{(PROP\_IND expr expr)} {emit($PROP\_IND, Bytecode.INSTR_LOADPROP\_IND);} \]

; 

mapTemplateRef[int num_exprs]
:^{INCLUDE ID
{for (int i=1; i<=$num_exprs; i++) emit($INCLUDE, Bytecode.INSTR_NULL);}
args )
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n+$num_exprs);
}
|subtemplate
{
if ( $subtemplate.nargs != $num_exprs ) {
  errMgr.compileTimeError(ErrorType.ANON_ARGUMENT_MISMATCH,
  templateToken, $subtemplate.start.token, $subtemplate.nargs, $num_exprs);
}
for (int i=1; i<=$num_exprs; i++) emit($subtemplate.start,Bytecode.INSTR_NULL);
emit2($subtemplate.start, Bytecode.INSTR_NEW,
  $subtemplate.name,
  $num_exprs);
}

|^INCLUDE\_IND expr
{
emit($INCLUDE\_IND, Bytecode.INSTR_TOSTR);
for (int i=1; i<=$num_exprs; i++) emit($INCLUDE\_IND, Bytecode.INSTR_NULL);
}
args )
{
emit1($INCLUDE\_IND, Bytecode.INSTR_NEW\_IND, $args.n+$num_exprs);
}
)
;

includeExpr
:^{(EXEC\_FUNC ID expr?) {func($ID);}}
|^INCLUDE ID args
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n);
}
|^INCLUDE\_SUPER ID args
{
if ($args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ( $args.namedArgs ) emit1($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW, $ID.text, $args.n);
}

[^ INCLUDE_REGION ID ]{
  CompiledST impl =
  Compiler.defineBlankRegion(outermostImpl, $ID.token);
  //impl.dump();
  emit2($INCLUDE_REGION,Bytecode.INSTR_NEW,impl.name,0);
}

[^ INCLUDE_SUPER_REGION ID ]{
  String mangled =
  STGroup.getMangledRegionName(outermostImpl.name, $ID.text);
  emit2($INCLUDE_SUPER_REGION,Bytecode.INSTR_SUPER_NEW,mangled,0);
}

[^ primary ];

primary :
  ID{refAttr($ID);};
[^ STRING ]{emit1($STRING,Bytecode.INSTR_LOAD_STR, Misc.strip($STRING.text,1));}
[^ TRUE ]{emit($TRUE, Bytecode.INSTR_TRUE);}
[^ FALSE ]{emit($FALSE, Bytecode.INSTR_FALSE);}

subtemplate// push a subtemplate but ignore args since we can't pass any to it here
  {emit2($start,Bytecode.INSTR_NEW, $subtemplate.name, 0);}

[^ list ]
[^ INCLUDE_IND ]
  expr {emit($INCLUDE_IND, Bytecode.INSTR_TOSTR);}
  args {emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n);}
  )
[^ TO_STR expr] {emit($TO_STR, Bytecode.INSTR_TOSTR);}

list:
  {emit(Bytecode.INSTR_LIST);}
[^ LIST ] (listElement {emit($listElement.start, Bytecode.INSTR_ADD);})* )
1.2730 urw-base35-fonts 20170801 10.el7

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iconv (Charset Conversion Library) v2.0

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
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1.2733 jetty-alpn-java-server 9.4.11.v20180605

1.2734 spring-mock 2.0.6

1.2734.1 Available under license :
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Expr.java
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/StackMapTable.java
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/MethodFilter.java

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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/ArrayInit.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Pair.java
*/
1.2741 colord 1.3.4 2.el7

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/**
 * StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession
 * allows the application to establish an iterative conversation with the engine, where the state of the
 * session is kept across invocations. The reasoning process may be triggered multiple times for the
 * same set of data. After the application finishes using the session, though, it <b>must</b> call the
 * <code>dispose()</code> method in order to free the resources and used memory.
 *
 * <p>
 * Simple example showing a stateful session executing rules for a given collection of java objects.
 * </p>
 *
 * KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
 * kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
 * assertFalse( kbuilder.hasErrors() );
 * if (kbuilder.hasErrors() ) {
 *     System.out.println( kbuilder.getErrors() );
 * }
 * KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
 * kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
 *
 * StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
 * for( Object fact : facts ) {
 *     ksession.insert( fact );
 * }
 * ksession.fireAllRules();
*/
Simple example showing a stateful session executing processes.

```java
KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
KnowledgeBase kbase = kbuilder.newKnowledgeBase();
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
ksession.startProcess("com.sample.processid");
ksession.signalEvent("SomeEvent", null);
ksession.startProcess("com.sample.processid");
ksession.dispose();
```

StatefulKnowledgeSessions support globals. Globals are used to pass information into the engine (like data or service callbacks that can be used in your rules and processes), but they should not be used to reason over. If you need to reason over your data, make sure you insert it as a fact, not a global.

Globals are shared among ALL your rules and processes, so be especially careful of (and avoid as much as possible) mutable globals. Also, it is a good practice to set your globals before inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion time, and so, if you are using a global to constraint a fact pattern, and the global is not set, you may receive a `NullPointerException`.

Globals can be resolved in two ways. The StatefulKnowledgeSession supports `getGlobals()` which returns the internal Globals, which itself can take a delegate. Calling setGlobal(String, Object) will set the global on an internal Collection. Identifiers in this internal Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.

```java
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB interactions in the rules.
for( Object fact : facts ) {
    ksession.insert( fact );
}
ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
ksession.dispose();
```

Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a
StatefulKnowledgeSession. See CommandExecutor
* for more details.
* </p>
* 
* @see org.drools.runtime.Globals
*/

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  jar/org/drools/builder/conf/DefaultPackageNameOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/builder/conf/EvaluatorOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/util/CompositeClassLoader.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/conf/RemoveIdentitiesOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/conf/SingleValueKnowledgeBaseOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/event/rule/WorkingMemoryEvent.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/event/agent/BeforeResourceProcessedEvent.java
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  jar/org/drools/event/agent/KnowledgeBaseUpdatedEvent.java
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  jar/org/drools/builder/KnowledgeBuilderConfiguration.java
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jar/org/drools/KnowledgeBase.java
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jar/org/drools/io/Resource.java
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jar/org/drools/event/knowledgeagent/BeforeChangeSetProcessedEvent.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/conf/MaxThreadsOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/builder/KnowledgeBuilder.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/event/knowledgebase/DefaultKnowledgeBaseEventListener.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/conf/MultiValueKnowledgeBaseOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/runtime/conf/ClockTypeOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/runtime/rule/FactHandle.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/runtime/conf/WorkItemHandlerOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/definition/KnowledgeDefinition.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/event/process/ProcessEventManager.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/event/knowledgeagent/AfterResourceProcessedEvent.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/runtime/Globals.java
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jar/org/drools/conf/LogicalOverrideOption.java
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jar/org/drools/runtime/StatelessKnowledgeSessionResults.java
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jar/org/drools/runtime/process/StatefulProcessSession.java
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jar/org/drools/event/io/ResourceChangeListener.java
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1.jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseUnlockedEvent.java
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1.jar/org/drools/event/knowledgebase/BeforeRuleRemovedEvent.java
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Ty Coon, President of Vice

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1.2754 slf4j-log4j 1.7.5
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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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**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
* 
* <p>The XSLT Source object is supplied as a parameter in the model and then
* {@link #locateSource detected} during response rendering. Users can either specify
* a specific entry in the model via the { @link #setSourceKey sourceKey } property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See { @link #getSourceTypes() here}
* for more details.
* 
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure { @link #setOutputProperties output properties}
* to be passed to the Transformer.
* 
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
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1.2786.1 Available under license:

Upstream source: http://dickey.his.com/byacc/byacc.html

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Include a small example if possible. Please include the banner string from skeleton.c with the bug report. Do not expect rapid responses.

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1.2787 jackson 2.3.3
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1.2788 jersey-media-sse 2.6

1.2789 acpid 2.0.19 9.el7

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Version 2, June 1991

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1.2795 rest-assured 2.4.0
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 */

Found in path(s):
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/HttpContextDecorator.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/HttpResponseException.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/Method.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/ContentEncoding.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/HttpDeleteWithBody.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/DeflateEncoding.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/Status.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/BasicNameValuePairWithNoValueSupport.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/ContentEncodingRegistry.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/http/URIBuilder.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
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Found in path(s):
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/specification/ProxySpecification.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/matcher/ResponseAwareMatcher.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/UriValidator.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/proxy/RestAssuredProxySelector.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/proxy/RestAssuredProxySelectorRoutePlanner.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/print/RequestPrinter.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-jar/com/jayway/restassured/internal/log/LogRepository.java
jar/com/jayway/restassured/builder/ResponseSpecBuilder.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/authentication/AuthenticationScheme.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/specification/ResponseLogSpecification.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/specification/FilterableRequestSpecification.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/authentication/BasicAuthScheme.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/support/ParameterAppender.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/ContentParser.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/config/XmlConfig.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/spi/AuthFilter.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/http/ContentTypeExtractor.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/authentication/OAuth2Scheme.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/matcher/xml/XmlDtdMatcher.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/config/RestAssuredConfig.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/filter/FormAuthFilter.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/matcher/RequestLogSpecificationImpl.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/authentication/CertAuthScheme.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/response/Cookie.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/specification/RequestSpecification.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/mapping/ObjectMapping.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/builder/ResponseBuilder.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/parsing/Parser.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/internal/ResponseParserRegistrar.groovy
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/config/DecoderConfig.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
jar/com/jayway/restassured/config/EncoderConfig.java
* /opt/cola/permits/1140604365_1614857468.41/0/rest-assured-2-4-0-sources-1-
Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223121633
Bundle-Classpath: .
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd

Bundle-Description: Jetty module for Jetty :: Http Utility
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Http Utility
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.http
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
Originally-Created-By: Apache Maven Bundle Plugin
Provide-Capability: osgi.serviceloader;osgi.serviceloader="org.eclipse.jetty.http.HttpFieldPreEncoder"
Tool: Bnd-3.3.0.201609221906

Found in path(s):
* /opt/cola/permits/1003218942_1607328775.61/0/test-jetty-webapp-9-4-11-v20180605-war/WEB-INF/lib/jetty-http-9-4-11-v20180605-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Bnd-LastModified: 1528225722666
Build-Jdk: 9.0.4
Built-By: joakim
Bundle-ClassPath: .,WEB-INF/classes
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd.
Bundle-Description: Jetty module for Test :: Jetty Test Webapp
Bundle-DoCURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Test :: Jetty Test Webapp
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.tests.webapp
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
Created-By: Apache Maven Bundle Plugin
Import-Package: javax.servlet.jsp;version="[2.2.0,3.0)".javax.servlet.jsp.tagext;version="[2.2.0,3.0)".org.eclipse.jetty.util;version="[9.4.11, 9.4.12)".org.eclipse.jetty.util.log;version="[9.4.11,9.4.12)".org.eclipse.jetty.websocket.api;version="[9.4.11,9.4.12)".org.eclipse.jetty.websocket.api.annotations;version="[9.4.11,9.4.12)".org.eclipse.jetty.websocket.servlet;version="[9.4.11,9.4.12)".javax.annotation,javax.servlet;version="[3.1.0,4)".javax.servlet.annotation;version="[3.1.0,4)".javax.servlet.http;version="[3.1.0,4)".javax.websocket;version="[1.0.0,2)".javax.websocket.server;version="[1.0.0,2)"

Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.3.0.201609221906
Web-ContextPath: /

Found in path(s):
* /opt/cola/permits/1003218942_1607328775.61/0/test-jetty-webapp-9-4-11-v20180605-war/WEB-INF/classes/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223983350
Bundle-Classpath: .
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd

Bundle-Description: Jetty module for Jetty :: Websocket :: API
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Websocket :: API
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.websocket.api
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
eclipse.jetty.websocket.api.util;version="[9.4.11,10)"
Originally-Created-By: Apache Maven Bundle Plugin
Tool: Bnd-3.3.0.201609221906

Found in path(s):
* /opt/cola/permits/1003218942_1607328775.61/0/test-jetty-webapp-9-4-11-v20180605-war/WEB-INF/lib/websocket-api-9-4-11-v20180605-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223664791
Bundle-Classpath: .
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd
Bundle-Description: Jetty module for Jetty :: Utility Servlets and Filters
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Utility Servlets and Filters
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.servlets
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.3.0.201609221906

Found in path(s):
* /opt/cola/permits/1003218942_1607328775.61/0/test-jetty-webapp-9-4-11-v20180605-war/WEB-INF/lib/jetty-servlets-9-4-11-v20180605-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223640581
Bundle-Classpath: .
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd

Bundle-Description: Jetty module for Jetty :: Continuation
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Continuation
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.continuation
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
Export-Package: org.eclipse.jetty.continuation;version="9.4.11";uses="javax.servlet"
Import-Package: javax.servlet;version="[3.1.0,4)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.3.0.201609221906

Found in path(s):
* /opt/cola/permits/1003218942_1607328775.61/0/test-jetty-webapp-9-4-11-v20180605-war/WEB-INF/lib/jetty-continuation-9-4-11-v20180605-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223088290
Bundle-Classpath:  
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd  
Bundle-Description: Jetty module for Jetty :: IO Utility
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: IO Utility
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.io
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="((&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.3.0.201609221906

Found in path(s):
* /opt/cola/permits/1003218942_1607328775.61/0/test-jetty-webapp-9-4-11-v20180605-war/WEB-INF/lib/jetty-io-9-4-11-v20180605.jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.4.11.v20180605
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1528223049334
Bundle-Classpath:  
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd  
Bundle-Description: Jetty module for Jetty :: Utilities
Bundle-DocURL: http://www.eclipse.org/jetty
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 9.0.4
Bnd-LastModified: 1528225722666
Bundle-ClassPath: .,WEB-INF/classes
Bundle-Copyright: Copyright (c) 2008-2018 Mort Bay Consulting Pty. Ltd

  Bundle-Description: Jetty module for Test :: Jetty Test Webapp
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-ManifestVersion: 2
Bundle-Name: Test :: Jetty Test Webapp
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.tests.webapp
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.4.11.v20180605
Import-Package: javax.servlet.jsp;version="[2.2.0,3.0)";javax.servlet.jsp.tagext;version="[2.2.0,3.0)";org.eclipse.jetty.util;version="[9.4 .11,9.4.12)";org.eclipse.jetty.util.log;version="[9.4.11,9.4.12)";org .eclipse.jetty.websocket.api;version="[9.4.11,9.4.12)";org.eclipse.jetty.websocket.api.annotations;version="[9.4.11,9.4.12)";org.eclipse.jetty.websocket.servlet;version="[9.4.11,9.4.12)";javax.annotation;java x.servlet;version="[3.1.0,4)";javax.servlet.annotation;version="[3.1 .0,4)";javax.servlet.http;version="[3.1.0,4)";javax.websocket;version ="[1.0.0,2)";javax.websocket.server;version="[1.0.0,2)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="((&(osgi.ee=JavaSE)(version=1.8)))"
Tool: Bnd-3.3.0.201609221906
Web-ContextPath: /

No license file was found, but licenses were detected in source scan.

<HTML>
<HEAD>
  <TITLE>Powered By Jetty - Auth Links</TITLE>
  <META http-equiv="Pragma" content="no-cache">
  <META http-equiv="Cache-Control" content="no-cache,no-store">
</HEAD>
<BODY>
Jetty Authentication Links

This page contains several links to test the authentication constraints:

- Forbidden
- Allowed
- Authenticated (tests FormAuthenticator.setAlwaysSaveUri())
- Forbidden
- Allowed
- Authenticated any user with any role
- Authenticated admin role
- Confidential
- Programmatic login as the user jetty/jetty
- Check the request's login status
- Programmatically logout the logged in user
- Programmatically login with incorrect credentials

Usernames/Passwords are jetty/jetty admin/admin & user/password

Return to main menu.
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1.2799 axis2-adb 1.3
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1.2800 apache-servicemix-bundles-wsdl4j

1.6.1_1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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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.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest
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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
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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
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under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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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<signature of Ty Coon>, 1 April 1990
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---

1.2814 perl-file-temp 0.23.01 3.el7

1.2814.1 Available under license:

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b) accompany it with a written offer, valid for at least three
years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of
Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the
corresponding source code may be obtained. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making
modifications to it. For an executable file, complete source code means
all the source code for all modules it contains; but, as a special
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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
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free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>
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appropriate parts of the General Public License. Of course, the
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program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
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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
Ty Coon, President of Vice

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1.2815 spring-xml 3.0.10.RELEASE

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-----
The xml2po program is used to convert between PO files and XML documents. Within gnome-doc-utils, it is used primarily to translate documentation written in the DocBook format. It was written by Danilo Segan.

xml2po is released under the terms of the GNU GPL. PO and XML files output by xml2po are unaffected by the GPL; you are free to license them however you see fit.

gnome-doc-prepare
-----------------
The gnome-doc-prepare script is used to initialize your source tree for using the gnome-doc-utils build utilities. It can also be used to create a template document and the necessary supporting files and folders. It was written by Danilo Segan.

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gnome-doc-utils.make
---------------------
The gnome-doc-utils.make make script can be included into your Makefiles to build, verify, and install your documentation. It was written by Shaun McCance.

gnome-doc-utils.make is released under the terms of the GNU GPL. Most files output by gnome-doc-utils.make are actually output using one of the other tools in this package, or using a commonly-available tool from another package. Thus, the files output by this script are not affected by the GPL. They may, however, be affected by the terms of the individual programs that are being invoked.

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XSLT
----
This package contains various XSLT files for transforming DocBook and other
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------
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift

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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'
  }


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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

1.2827 mapstruct 1.0.0.CR1
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1.2839 axiom-dom 1.2.5

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1.2847 jax-ws 2.1.3
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/

/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * @code createEntityManager @endcode call (may be @code null}
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
 */

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* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate4/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/support/HibernateDaoSupport.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/annotation/AnnotationSessionFactoryBean.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate4/support/OpenSessionInViewFilter.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/HibernateTemplate.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/LocalSessionFactoryBean.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/HibernateInterceptor.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate3/SessionFactoryUtils.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/jpa/LocalEntityManagerFactoryBean.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/jpa/LocalContainerEntityManagerFactoryBean.java
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  jar/org/springframework/orm/hibernate4/LocalSessionFactoryBean.java
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  jar/org/springframework/orm/hibernate4/LockManager.java
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  jar/org/springframework/orm/hibernate3/support/OpenSessionInViewFilter.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
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  jar/org/springframework/orm/hibernate4/support/AsyncRequestInterceptor.java
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* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
  jar/org/springframework/orm/hibernate4/support/AsyncRequestInterceptor.java
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jar/org/springframework/orm/jpa/JpaOperations.java
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jar/org/springframework/orm/hibernate4/SpringSessionContext.java
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jar/org/springframework/orm/jpa/JpaCallback.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
jar/org/springframework/orm/hibernate3/AbstractSessionFactoryBean.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
jar/org/springframework/orm/jdo/JdoObjectRetrievalFailureException.java
* /opt/cola/permits/1152321959_1618219387.58/0/spring-orm-3-2-8-release-sources-2-
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jar/org/springframework/orm/jpa/ExtendedEntityManagerCreator.java
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jar/org/springframework/orm/ibatis/SqlMapClientFactoryBean.java
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   jar/org/springframework/jpa/EntityManagerFactoryPlusOperations.java
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* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1-jar/org/springframework/security/web/servletapi/HttpServlet25RequestFactory.java
* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1-jar/org/springframework/security/web/context/request/async/WebAsyncManagerIntegrationFilter.java
* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1-jar/org/springframework/security/web/util/matcher/RegexRequestMatcher.java
* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1-jar/org/springframework/security/web/util/AntPathRequestMatcher.java
* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1-jar/org/springframework/security/web/servletapi/HttpServletRequestFactory.java
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* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1.jar/org/springframework/security/web/util/matcher/ELRequestMatcherContext.java
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* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1.jar/org/springframework/security/web/AuthenticationEntryPoint.java
* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1.jar/org/springframework/security/web/access/channel/ChannelDecisionManager.java
* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1.jar/org/springframework/security/web/authentication/logout/SecurityContextLogoutHandler.java
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* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1.jar/org/springframework/security/web/access/intercept/FilterInvocationSecurityMetadataSource.java
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* /opt/cola/permits/1096120291_1601573793.05/0/spring-security-web-3-2-3-release-sources-1-jar/org/springframework/security/web/authentication/rememberme/JdbcTokenRepositoryImpl.java
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* /opt/cola/permits/1137268254_1614043295.39/0/spring-messaging-4-3-30-release-sources-1.jar/org/springframework/messaging/handler/annotation/support/AnnotationExceptionHandlerMethodResolver.java
* /opt/cola/permits/1137268254_1614043295.39/0/spring-messaging-4-3-30-release-sources-1.jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java
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/**
* Set the max pool size of the ThreadPoolExecutor.
* <p><strong>NOTE:</strong> When an unbounded
* {queueCapacity} is configured (the default), the
* max pool size is effectively ignored. See the "Unbounded queues" strategy
* in {java.util.concurrent.ThreadPoolExecutor} for
* more details.
* By default this is set to {Integer.MAX_VALUE}.
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    short revents;
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#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID

/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
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#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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   */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H
#endif

#ifdef COMPAT_POLL_H

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLWRBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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 */

ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
endif
ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
endif

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 */
diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
     --- openssh-7.4p1/sftp-server.8.sftp-force-mode2016-12-19 05:59:41.000000000 +0100
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
    /* Version of client */
    static u_int version;

/+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
+static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
    debug3("request %u: open flags %d", id, pflags);
    flags = flags_from_portable(pflags);
    mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+    if (permforce == 1) {   /* Force perm if -m is set */
+        mode = permforcemode;
+    }

if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
    (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)

debug3("request %u: open flags %d", id, pflags);
flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+    if (permforce == 1) {   /* Force perm if -m is set */
+        mode = permforcemode;
+    }
+old_umask = umask(0); /* so umask does not interfere */
+
logit("open \"%s\" flags %s mode 0%o",
    name, string_from_portable(pflags), mode);
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
    }
    }
    }
+if (permforce == 1)
+  (void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
  send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
  fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
    [-l log_level] [-n [-P blacklisted_requests]] 
-    " [-p whitelisted_requests] [-u umask]\n" +    " [-p whitelisted_requests] [-u umask] [-m force_file_perms]\n" +    "$ %s -P protocol_feature\n",
    __proname, __proname);
  exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
    pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
+    "d:f:l:P:p:Q:u:m:cehR") != -1) { 
    switch (ch) {
    case 'Q':
      if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
            fatal("Invalid umask \"%s\", optarg);
        (void) umask((mode_t)mask);
        break;
+      case 'm':
+        /* Force permissions on file received via sftp */
+        permforce = 1;
+        permforcemode = strtol(optarg, &cp, 8);
+        if (permforcemode < 0 || permforcemode > 0777 ||
+            *cp != '\0' || (permforcemode == 0 &&
+            errno != 0))
+            fatal("Invalid file mode \"%s\", optarg);
+        break;
        case 'h':
            default:
            sftp_server_usage();
            break;
1.2865 activemq-jdbc-store 5.16.3

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1.2874 hsql-db 2.3.2

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/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to sent to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
 * too liberal with proprietary SQL like this, because it's easy to
 * envision other proprietary or non-proprietary commands beginning with
 * DECLARE or BEGIN. */

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jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java

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/*

Comprehensive information about the database as a whole.

This interface is implemented by driver vendors to let users know the capabilities
of a Database Management System (DBMS) in combination with
the driver based on JDBC<sup><font size=-2>TM</font></sup> technology
("JDBC driver") that is used with it. Different relational DBMSs often support
different features, implement features in different ways, and use different
data types. In addition, a driver may implement a feature on top of what the
DBMS offers. Information returned by methods in this interface applies
to the capabilities of a particular driver and a particular DBMS working
together. Note that as used in this documentation, the term "database" is
used generically to refer to both the driver and DBMS.

A user for this interface is commonly a tool that needs to discover how to
deal with the underlying DBMS. This is especially true for applications
that are intended to be used with more than one DBMS. For example, a tool might use the method
* <code>getTypeInfo</code> to find out what data types can be used in a
* <code>CREATE TABLE</code> statement. Or a user might call the method
* <code>supportsCorrelatedSubqueries</code> to see if it is possible to use
* a correlated subquery or <code>supportsBatchUpdates</code> to see if it is
* possible to use batch updates.

Some <code>DatabaseMetaData</code> methods return lists of information
in the form of <code>ResultSet</code> objects.
Regular <code>ResultSet</code> methods, such as
* <code>getString</code> and <code>getInt</code>, can be used
to retrieve the data from these <code>ResultSet</code> objects. If
* a given form of metadata is not available, an empty <code>ResultSet</code>
* will be returned. Additional columns beyond the columns defined to be
* returned by the <code>ResultSet</code> object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their <B>column label</B>.

Some <code>DatabaseMetaData</code> methods take arguments that are
* String patterns. These arguments all have names such as fooPattern.
* Within a pattern String, "%" means match any substring of 0 or more characters, and "_" means match any one character. Only metadata entries matching the search pattern are returned. If a search pattern argument is set to <code>null</code>, that argument's criterion will be dropped from the search.
* <p>
* A method that gets information about a feature that the driver does not support will throw an <code>SQLException</code>.
* In the case of methods that return a <code>ResultSet</code> object, either a <code>ResultSet</code> object (which may be empty) is returned or an <code>SQLException</code> is thrown.
* 
* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h3>HSQLDB-Specific Information:</h3> <p>
* <h4>Metadata Table Production</h4>
* 
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role ('admin' users in older HSQLDB parlance) could expect trouble-free access to all metadata.<p>
* 
* Also starting with HSQLDB 1.7.2, the metadata table production implementation classes are loaded dynamically, using a precedence policy to find and load the richest producer available at runtime. In the event that no better alternative is found, the default minimal (completely restricted) provider is selected. Under this scheme, it is possible for third party packagers to create custom distributions targeted at supporting full (design-time), custom-written (proprietary / micro environment), minimal (production-time) or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more about this option, interested parties can review the documentation and source code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>
* 
* Please also note that in addition to the metadata tables produced to directly support this class, starting with HSQLDB 1.7.2, the default build provides many additional tables covering all or most HSQLDB features, such as descriptions of the triggers and aliases defined in the database. <p>
* 
* For instance, in the default build, a fairly comprehensive description of each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA column is included in the REMARKS column of the (@link #getTables( java.lang.String, java.lang.String, java.lang.String, java.lang.String[]) getTables(...)) and (@link #getColumns(java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String) getColumns(...)) results, which derive
from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS, respectively.<p>

The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and this fact is reflected in the all subsequent versions of this class.<p>

Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond is a major theme which is reflected in the provision of the majority of the standard-defined full-name INFORMATION_SCHEMA views. <p>

However, just as CATALOG semantics and handling are still considered to be implementation defined by the most recent SQL standard (SQL:2008), so is the HSQLDB CATALOG concept still in the process of being defined and refined in HSQLDB 2.x. and beyond.<p>

Previous to HSQLDB 2.x, there were, at various points in time, experimental features provided to turn on pseudo catalog (and before that, pseudo-schema) reporting in the system tables, using the database properties 'hsqldb.catalogs' and 'hsqldb.schemas', respectively.<p>

However, once the engine fully supported the SQL SCHEMA concept, the experimental 'hsqldb.schemas' database property was retired. <p>

Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property has been retired and replaced with the convention that, from the perspective of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB database instance which consists of a single, default CATALOG named PUBLIC in which each SCHEMA instance of the database resides. The name of this catalog can be changed with the ALTER CATALOG <name> RENAME TO statement.<p>

As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of database objects at the syntactic level, but does not yet support operations such as opening, manipulating or querying against multiple database catalogs within a single session, not even in a one-at-a-time fashion.<p>

It must still be noted that as of the most recent release, HSQLDB continues to ignore the approximate argument of [@link #getIndexInfo getIndexInfo()] which continues to be simply indicative of absence of a fully statistics-driven cost-based SQL plan optimization facility. When, such a facility is implemented, corresponding improvements to <code>getIndexInfo</code> will be provided. <p>

Notes for developers extending metadata table production
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order. The reason for this is that results typically come
* back much faster when no "ORDER BY" clause is used. <p>
* As such, when adding, extending or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract "ORDER BY" clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.<p>
* <hr><br>
* <b>JRE 1.1.x Notes:</b>
* In general, JDBC 2 support requires Java 1.2 and above, and JDBC3 requires
* Java 1.4 and above. In HSQLDB, support for methods introduced in different
* versions of JDBC depends on the JDK version used for compiling and building
* HSQLDB.<p>
* Since 1.7.0, it is possible to build the product so that
* all JDBC 2 methods can be called while executing under the version 1.1.x
* Java Runtime Environment.<em>TM</em> However, some of these method calls require <code>int</code> values that
* are defined only in the JDBC 2 or greater version of the
* <code>ResultSet</code> interface. For this reason, when the
* product is compiled under JDK 1.1.x, these values are defined in
* <code>JDBCResultSet</code>.<p>
* In a JRE 1.1.x environment, calling JDBC 2 methods that take or return the
* JDBC2-only <code>ResultSet</code> values can be achieved by referring
* to them in parameter specifications and return value comparisons,
* respectively, as follows: <p>
* <pre class="JavaCodeExample">
* JDBCResultSet.FETCH_FORWARD
* JDBCResultSet.TYPE_FORWARD_ONLY
* JDBCResultSet.TYPE_SCROLL_INSENSITIVE
* JDBCResultSet.CONCUR_READ_ONLY
* // etc
* </pre>
* However, please note that code written in such a manner will not be
* compatible for use with other JDBC 2 drivers, since they expect and use
* <code>ResultSet</code>, rather than <code>JDBCResultSet</code>. Also
* note, this feature is offered solely as a convenience to developers
* who must work under JDK 1.1.x due to operating constraints, yet wish to
* use some of the more advanced features available under the JDBC 2
  specification.<p>
*<p>
* (fredt@users)<br>
* (boucherb@users)
* </div>
* <!-- end release-specific documentation -->
*<p>
* @author Campbell Boucher-Burnet (boucherb@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.3.2
* @revised JDK 1.6, HSQLDB 2.0
* @revised JDK 1.7, HSQLDB 2.0.1
* @see org.hsqldb.dbinfo.DatabaseInformationMain
* @see org.hsqldb.dbinfo.DatabaseInformationFull
*/

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* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java
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* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/test/TestNullInUnion.java
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\?  lists Special Commands.
 :?  lists Edit-Buffer/History commands.
*?  lists PL commands.
/?  displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with \ and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted '; (which executes the
statement), or a blank line (which moves the statement into the edit buffer
without executing).
After turning on variable expansion with command "*" (or any other PL
command), PL variables may be used in most commands like so:  *{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s
operate only on the command text after the * or \ prefix, if any.

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* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/persist/HsqlDatabaseProperties.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/persist/RowStoreAVLHybridExtended.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/persist/LobManager.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/navigator/RowSetNavigatorDataChange.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/cmdline/sqltool/Token.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/Routine.java
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* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/Grid.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/server/ServerConnection.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/SQLStatements.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/TransferTable.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/Like.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/server/Servlet.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/lib/StringConverter.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/CodeSwitcher.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/TransferCommon.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/DatabaseManagerCommon.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/sample/FindFile.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/Tree.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/Transfer.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/index/NodeAVLDisk.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/RowAVL.java
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* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/Token.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorException.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/Preprocessor.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/Defines.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
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* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1
jar/org/hsqldb/util/preprocessor/BasicResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/util/preprocessor/LineType.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/util/preprocessor/IResolver.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/util/preprocessor/Parser.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/util/preprocessor/Line.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/util/preprocessor/Document.java
* /opt/cola/permits/1139588978_1614664699.03/0/hsqldb-2-3-2-sources-1-
  jar/org/hsqldb/util/preprocessor/Option.java

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* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/lib/RefCapableRBIface.java
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* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/lib/LongLookup.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/test/TestNitin.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/ClientConnectionHTTP.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/rowio/RowOutputTextQuoted.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb-2-3-2-sources-1-jar/org/hsqldb/test/TestSchemaParse.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/test/HashIndex.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/test/StatementSchemaDefinition.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/server/BlaineTrig.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/server/ThreadFactory.java
* /opt/cola/permits/1139588978_1614646499.03/0/hsqldb/server/RowInputBinary180.java
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* @return the underlying sessionProxy for this connection
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    */
    /**
    * Implement this interface when parameters need to be customized based
    * on the connection. We might need to do this to make use of proprietary
    * features, available only with a specific Connection type.
    *
    * @author Rod Johnson
    * @author Thomas Risberg
    * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
    * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
    */
    /**
    * Create a Map of input parameters, keyed by name.
    */
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never {@code null})
*/

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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
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 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/support/JdbcUtils.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/core/JdbcOperations.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/core/init/DatabasePopulatorUtils.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
   jar/org/springframework/jdbc/core/SqlProvider.java
 * /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/C3P0NativeJdbcExtractor.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/object/SqlQuery.java
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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/lob/LobCreatorUtils.java
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/**
 * Strategy interface for translating between [SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [DataAccessException]
 * hierarchy.
 *
 * Implementations can be generic (for example, using
 * [java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
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The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- <ul>
  - Simplify error handling, avoiding the need for try/catch/finally
  
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* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>

* </p>This package and related packages are discussed in Chapter 9 of
* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
Development</a>
* by Rod Johnson (Wrox, 2002).
*/

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*/
/**
 * [link LobHandler] implementation for Oracle databases. Uses proprietary API
 * to create [@code oracle.sql.BLOB] and [@code oracle.sql.CLOB] instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 * *
 * <p>While most databases are able to work with [@link DefaultLobHandler],
 * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
 * Blob/Clob instances created via its own proprietary BLOB/CLOB API,
 * and additionally doesn't accept large streams for PreparedStatement's
 * corresponding setter methods. Therefore, you need to use a strategy like
 * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver

(which still supports access to Oracle 9i databases).

* NOTE: As of Oracle 10.2, DefaultLobHandler should work equally well out of the box. On Oracle 11g, JDBC 4.0 based options such as DefaultLobHandler#setStreamAsLob and DefaultLobHandler#setCreateTemporaryLob are available as well, rendering this proprietary OracleLobHandler obsolete.

* Also, consider upgrading to a new driver even when accessing an older database. See the LobHandler interface javadoc for a summary of recommendations.

* Needs to work on a native JDBC Connection, to be able to cast it to oracle.jdbc.OracleConnection. If you pass in Connections from a connection pool (the usual case in a Java EE environment), you need to set an appropriate org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor to allow for automatic retrieval of the underlying native JDBC Connection. LobHandler and NativeJdbcExtractor are separate concerns, therefore they are represented by separate strategy interfaces.

* Coded via reflection to avoid dependencies on Oracle classes. Even reads in Oracle constants via reflection because of different Oracle drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values! As this LobHandler initializes Oracle classes on instantiation, do not define this as eager-initializing singleton if you do not want to depend on the Oracle JAR being in the class path: use "lazy-init=true" to avoid this issue.

* @author Juergen Hoeller  
* @author Thomas Risberg  
* @since 04.12.2003  
* @see DefaultLobHandler  
* @see #setNativeJdbcExtractor  
* @deprecated in favor of for the Oracle 10g driver and higher. Consider using the 10g/11g driver even against an Oracle 9i database!  
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API. That said, in most cases, regular DefaultLobHandler setup will work fine as well.

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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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  jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/object/StoredProcedure.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
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* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/core/support/JdbcTemplateReader.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcTemplate.java

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* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
* /opt/cola/permissions/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcTemplate.java
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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java

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  jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/core/JdbcTemplate.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/support/KeyHolder.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
  jar/org/springframework/jdbc/object/RdbmsOperation.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1-
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/**
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
* {@[link OracleLobHandler]; most other databases should be able to work
* with the provided {@[link DefaultLobHandler].
*
* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
* <p>Most databases/drivers should be able to work with { @link DefaultLobHandler },
* which by default delegates to JDBC's direct accessor methods, avoiding the
* { @code java.sql.Blob } and { @code java.sql.Clob } API completely.
* { @link DefaultLobHandler } can also be configured to access LOBs using
* { @code PreparedStatement.setBlob/setClob } (e.g. for PostgreSQL), through
* setting the { @link DefaultLobHandler#setWrapAsLob "wrapAsLob" } property.
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* { @link OracleLobHandler } there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g+ JDBC driver will work with { @link DefaultLobHandler }
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use { @link OracleLobHandler } at all anymore.
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
* <ul>
* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use { @link DefaultLobHandler },
* potentially with { @code streamAsLob=true } if your database driver requires that
* hint when populating a LOB field. Fall back to { @code createTemporaryLob=true }
* if you happen to run into LOB size limitations with your (Oracle) database setup.
* <li><b>Oracle 10g driver:</b> Use { @link DefaultLobHandler } with standard setup.
* On Oracle 10.1, set the 'SetBigStringTryClob' connection property; as of Oracle 10.2,
* DefaultLobHandler should work with standard setup out of the box. Alternatively,
* consider using the proprietary { @link OracleLobHandler } (see below).
* <li><b>Oracle 9i driver:</b> Use { @link OracleLobHandler } with a connection-pool-specific
* { @link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor }.
* <li><b>PostgreSQL:</b> Configure { @link DefaultLobHandler } with { @code wrapAsLob=true },
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain { @link DefaultLobHandler }.  
* </ul>
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet(getString
* @see java.sql.ResultSet#getAsciStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciStream
*/

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/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/core/DriverManagerDataSource.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/datasource/EmbeddedDatabase.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java

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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
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* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /opt/cola/permits/1137268209_1614043098.11/0/spring-jdbc-4-3-30-release-sources-1.jar/org/springframework/jdbc/core/ConnectionCallback.java

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  jar/org/springframework/jms/support/destination/CachingDestinationResolver.java
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* /opt/cola/permits/1152321541_1618219056.83/0/spring-jms-3-2-8-release-sources-2-
  jar/org/springframework/jms/support/converter/MessageConverter.java
* /opt/cola/permits/1152321541_1618219056.83/0/spring-jms-3-2-8-release-sources-2-
  jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
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  jar/org/springframework/jms/core/MessagePostProcessor.java

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  jar/org/springframework/jms/support/converter/MappingJackson2MessageConverter.java
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  jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointFactory.java
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* /opt/cola/permits/1152321541_1618219056.83/0/spring-jms-3-2-8-release-sources-2-
  jar/org/springframework/jms/support/converter/MappingJacksonMessageConverter.java
* /opt/cola/permits/1152321541_1618219056.83/0/spring-jms-3-2-8-release-sources-2-
  jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java

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* /opt/cola/permits/1152321541_1618219056.83/0/spring-jms-3-2-8-release-sources-2-jar/org/springframework/jms/listener/adapter/MessageListenerAdapter102.java
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  jar/org/springframework/jms/MessageNotReadableException.java
* /opt/cola/permits/1152321541_1618219056.83/0/spring-jms-3-2-8-release-sources-2-
  jar/org/springframework/jms/connection/DelegatingConnectionFactory.java
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  jar/org/springframework/jms/listener/adapter/ListenerExecutionFailedException.java
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APACHE COMMONS POOL DERIVATIVE WORKS:

The LinkedBlockingDeque implementation is based on an implementation written by 
Doug Lea with assistance from members of JCP JSR-166 Expert Group and released 
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1.2883 spring-web 5.2.9.RELEASE
1.2883.1 Available under license :
No license file was found, but licenses were detected in source scan.

# This file maps Internet media types to unique file extension(s). 
# Although created for httpd, this file is used by many software systems 
# and has been placed in the public domain for unlimited redistribution. 
# 
# The table below contains both registered and (common) unregistered types. 
# A type that has no unique extension can be ignored -- they are listed 
# here to guide configurations toward known types and to make it easier to 
# identify "new" types. File extensions are also commonly used to indicate 
# content languages and encodings, so choose them carefully. 
# 
# Internet media types should be registered as described in RFC 4288. 
# The registry is at <https://www.iana.org/assignments/media-types/>. 
# 
# This file was retrieved from 
# 
# MIME type (lowercased)Extensions 
# ===================================================
# application/1d-interleaved-parityfec 
# application/3gpdash-qoe-report+xml 
# application/3gpp-ims+xml 
# application/a2l 
# application/activemessage 
# application/alto-costmap+json
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+json
application/cu-seemecu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xmldavmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xmldbk
# application/dskpp+xml
application/dssc+derdssc
application/dssc+xmlxdssc
# application/dvcs
application/ecmascriptecma
# 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/emmarxlemma
# application/emotionml+xml
# application/encaprt
# application/epp+xml
application/epub+zipepub
# application/eshop
# application/example
application/exiexi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fit
# application/font-sfnt
application/font-tdpfrftr
application/font-woffwoff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gml
application/gpx+xml
application/gpx
application/gxf
application/gzip
application/h224
application/held+xml
application/http
application/hyperstudio
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
application/iotp
application/ipfix
application/ipp
application/isup
application/its+xml
application/java-archive
application/java-archive.jar
application/java-serialized-object
application/java-vm
application/javascript
application/jose
application/jose+json
application/jrd+json
application/json
application/json-patch+json
application/json-req
application/json-seq
application/jsonml+xml
application/jwk+json
application/jwk-set+json
application/jwt
application/kpml-request+xml
application/kpml-response+xml
application/ld+json
application/ld+json
application/link-format
application/load-control+xml
application/lost+xml
application/lost+json
application/lost+xml
# application/lxf
application/mac-binhex40hqx
application/mac-compactproct
# application/macwriteii
application/mads+xmlmads
application/marcxml+xmlmrcxml
application/mathematica mb mb
application/mathml+xmlmathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associateprocedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-nsk-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/mboxmbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xmlmscml
# application/merge-patch+xml
application/metalink+xmlmetalink
application/metalink4+xmlmeta4
application/mets+xmlmets
# application/mf4
# application/mikey
application/mods+xmlmods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21m21 mp21
application/mp4mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword docdot
application/mxfmxf
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<td># application/prs.xsf+xml</td>
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<td># application/raptorfec</td>
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<td># application/rdap+json</td>
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<td># application/rfc+xml</td>
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<td>application/rpki-roara</td>
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<td># application/sqml</td>
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<tr>
<td># application/sqml-open-catalog</td>
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<tr>
<td>application/shf+xml</td>
<td>shf</td>
</tr>
<tr>
<td># application/sieve</td>
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</tbody>
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# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml smil
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirit-event+xml
# application/sql
application/srgs
application/srgs+xml gram
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 teicorpus
tei 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
Open Source Used In OnPrem2.1 2.2 27599
# 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.servicesvc
# application/vnd.dvb.dxr
application/vnd.dynageogeo
# application/vnd.dvb.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chartmag
# 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.enlivennml
# application/vnd.enphase.envoy
# application/vnd.epreprints.data+xml
application/vnd.epson.esfesf
application/vnd.epson.msfmsf
application/vnd.epson.quickanimeqam
application/vnd.epson.saltslt
application/vnd.epson.ssfsf
# application/vnd.ericsson.quickcall
application/vnd.eszigno3+xmles3 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
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# 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.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-tna_remote
# application/vnd.ntt-local.sip-tna_udp_stream
application/vnd.oasis.opendocument.chart
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application/vnd.oasis.opendocument.text-web
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# application/vnd.oipf.dae.svg+xml
# application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.udprofile+xml
# application/vnd.oipf.udprofile+xml
application/vnd.olpc-sugar
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml

Open Source Used In OnPrem2.1 2.2 27608
# 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 capcap cap dmp
# application/vnd.tnd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tpt
application/vnd.trueapp tpt
application/vnd.trueapp tpt
application/vnd.trueapp tpt
application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufd
application/vnd.uiq.theme umajumj
application/vnd.umajin unityunityweb
application/vnd.uoml+xml uoml
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
# application/vnd.uplanet.alert
# application/vnd.uplanet.alert-wbxml
# application/vnd.uplanet.bearer-choice
# application/vnd.uplanet.bearer-choice-wbxml
# application/vnd.uplanet.cacheop
# application/vnd.uplanet.cacheop-wbxml
# application/vnd.uplanet.channel
# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
# application/vnd.verimatrix.vcas
# application/vnd.vidsoft.videoconference
application/vnd.visiovsd vst vss vsw
application/vnd.visiovisionary vis
# application/vnd.vividence.scriptfile
application/vnd.vsf vsf
# application/vnd.wap.sic
# application/vnd.wap.sle
application/vnd.wap.wbxml wbxml
application/vnd.wap.wmlc wmlc
application/vnd.wap.wmlscriptc
application/vnd.webturbowtb
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# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
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# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.wfr
application/vnd.xara
application/vnd.xfdl
# application/vnd.xfdl.webform
# application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpk
g# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dichvd
application/vnd.yamaha.hv-script
application/vnd.yamaha.hv-voice
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application/vnd.yamaha.openscoreformat.osfpvg+xml
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# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu
application/vnd.zul
application/vnd.zzazz.deck+xml
application/voicexml+xml
# application/vq-rtcpxr
# application/watcherinfo+xml
# application/whoispp-query
# application/whoispp-response
application/widget
application/winhlp
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<td>application/x-freearc</td>
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<td>application/x-futuresplashpl</td>
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# audio/atrac-x
# audio/atrac3
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# audio/cn
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jar/org/springframework/http/client/ClientHttpRequestInitializer.java

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* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/server/handler/ResponseStatusExceptionHandler.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/server/reactive/AbstractServerHttpResponse.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/server/adapter/HttpWebHandlerAdapter.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/accept/MappingMediaTypeFileExtensionResolver.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/http/server/handler/ResponseStatusExceptionHandler.java
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* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-jar/org/springframework/web/util/UriBuilderFactory.java
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jar/org/springframework/web/context/request/WebRequest.java
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1.jar/org/springframework/web/util/HierarchicalUriComponents.java
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* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1.jar/org/springframework/http/bind/annotation/RequestMapping.java
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*/
/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See \{@link WebSession\}
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1135907487_1613628466.0/0/spring-web-5-2-9-release-sources-1-
  jar/org/springframework/web/server/ServerWebExchange.java

1.2884 linux-kernel 3.10.0-1160.6.1.el7

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Version 2, June 1991
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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
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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preserving your freedom as a user of such programs to change the free
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
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* M. Welsh, 6 July 1996
*
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* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/EvaluationContext.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/TypeConverter.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2.0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Selection.java
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" +

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* "" for expression starting at character " + prefixIndex + "
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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelEvaluationException.java
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case '(': case '{':

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* case '{'
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Found in path(s):
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/EvaluationException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/standard/Token.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/OpAnd.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4.jar/org/springframework/expression/spel/ast/OpAnd.java
"foo${expr0}bar${expr1}". The static

Found in path(s):
* number of expressions all contained in "${...}" markers. For instance

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er-release-sources-2-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
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er-release-sources-2-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java

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1.2917 libdaemon 0.14 7.el7

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Version 2.1, February 1999

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* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-jar/org/springframework/expression/spel/InternalParseException.java
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  jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
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  jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
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  jar/org/springframework/expression/spel/ast/Projection.java
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* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/SpelNode.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/PROPERTYAccessor.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/InlineMap.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/SpelCompilerMode.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/standard/Token.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-
/*
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 */

Found in path(s):
* /opt/cola/permits/1152323171_1618219275.41/0/spring-expression-4-2-1-release-sources-2-jar/org/springframework/expression/ExpressionParser.java

1.2925 activemq-stomp 5.16.2
1.2925.1 Available under license:

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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- web-common_3_0.xsd
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1.2939 libogg 1.3.0 7.el7
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2963 core-aspects 1.2.20

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Found in path(s):
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/support/converter/SimpleMessageConverter.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/config/JmsListenerEndpointRegistry.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/config/AbstractJmsListenerContainerFactory.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/support/SimpleJmsHeaderMapper.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/annotation/JmsListener.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/listener/AbstractJmsListeningContainer.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/annotation/EnableJms.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointFactory.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/connection/TransactionAwareConnectionFactoryProxy.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/config/AbstractListenerContainerParser.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/support/JmsMessageHeaderAccessor.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/annotation/JmsListenerAnnotationBeanPostProcessor.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/support/JmsHeaderTextMapper.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/connection/CachingConnectionFactory.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/config/MethodJmsListenerEndpoint.java
* /opt/cola/permits/1137994116_1614192780.58/0/spring-jms-4-3-30-release-sources-1-
  jar/org/springframework/jms/connection/SingleConnectionFactory.java

No license file was found, but licenses were detected in source scan.
1.2980 jetty-alpn-server 9.4.11.v20180605

1.2981 rpcbind 0.2.0-49.el7
1.2981.1 Available under license :
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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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* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.

*/

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archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbddd/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-Cd49Tbddd/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-Cd49Tbddd/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-Cd49Tbddd/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-Cd49Tbddd/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-Cd49Tbddd/libjpeg-turbo-
1.2.90/simd/jfss2int.asm
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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.
*/

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* *
* 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
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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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 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
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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
* (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

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archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.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/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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/java/org/libjpegturbo/turbojpeg/turbojpeg-jni.c

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/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* 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

\[
R = Y + K1 \times Cr
\]
\[
G = Y + K2 \times Cb + K3 \times Cr
\]
\[
B = Y + K4 \times Cb
\]

* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.

* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
/* jcprepc.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
 * jcprepct.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/jcprepc.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 jcaparam.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.
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgeext.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):
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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.

/*
* transupp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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
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.

/ *
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/

/ *
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/
/**
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
 * Date: 2/8/2008
 * @author Ariel Flesler
 * @version 1.3.2
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/ *
* jccoefct.c
* *
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90/doc/html/jcoefct.c
No license file was found, but licenses were detected in source scan.

/ *
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

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 PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
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** 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
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/*
* 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.

/*
* 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.
/*
 * 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

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/*
 * 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-
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 2-4× 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.

jcmainct.c

Copyright (C) 1994-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains the main buffer controller for compression.
The main buffer lies between the pre-processor and the JPEG
compressor proper; it holds downsampled data in the JPEG colorspace.

/*
 * jcmainct.c
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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

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/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPPLUS library, which is:

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 **
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** implied warranty. */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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.

/*
 * 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.
/*

 jidctint.c

 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement without additional resampling:
 * NxN (N=1...16) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
 */
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidictint.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.

/
* cjpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
Two different command line styles are permitted, depending on the
compile-time switch TWO_FILE_COMMANDLINE:

cjpeg [options] inputfile outputfile

cjpeg [options] [inputfile]

In the second style, output is always to standard output, which you'd
normally redirect to a file or pipe to some other program. Input is
either from a named file or from standard input (typically redirected).
The second style is convenient on Unix but is unhelpful on systems that
don't support pipes. Also, you MUST use the first style if your system
doesn't do binary I/O to stdin/stdout.

To simplify script writing, the "-outfile" switch is provided. The syntax

cjpeg [options] -outfile outputfile inputfile

works regardless of which command line style is used.

*/

No license file was found, but licenses were detected in source scan.

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software for a particular purpose. This software is provided "AS IS", and you,
reasons for developing this free software was to help force convergence on

No license file was found, but licenses were detected in source scan.

*/

* jsimd.h

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc

*/

No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMZnt8/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.

/*
 * 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. Ligttenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains output colorspace conversion routines.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsamples 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 downsamped data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)
An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than
one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data
                |             |             |
                ------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
      |                           |-- Downsampling
```
This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* **Main controller:** buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* **Preprocessing controller:** buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* **Colorspace conversion:** converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* **Downsampling:** performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* **Coefficient controller:** buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* **Forward DCT and quantization:** Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now...
emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.
*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
 ||-- Coefficient controller --|
 |                             |-- Dequantize, Inverse DCT
Main controller --|
 |                   |-- Upsampling
 ||-- Postprocessing controller --| ||-- Colorspace conversion
 |                         |-- Color quantization
 |                          |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.
* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.
The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the
permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (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.

/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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.

/*
 * 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.

/*
 * 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.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

*/
* jfdctflt.c
*
* 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.

/*
 * 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.

/*
 * 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
/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/License.rtf

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] -DELF ...)---------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits
%; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

%; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -> foo

%elifdef AOUT; ----(nasm -faout/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 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.

SECTIONSEGCONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx resister.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%%%geteip:
mov ecx, POINTER [esp]
ret
%%%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmp near const_base; E9,(const_base-%%ref)
%%ref: mov %1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern%GOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -----------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro
; 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($,%1)/9 \
   db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
   db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
   db 0x8D,0xAD,0x00,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
   db 0x8D,0x6C,0x25 ; lea ebp,[ebp+0x0d]
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

%endif WIN64

%ifdef __x86_64__

%endif __x86_64__

%endif __x86_64__
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 "jsimdfg.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.

/*
* 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
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/jdapistd.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.

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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/doc/html/search/search.js
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
* *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
* *
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.

* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).

* This code contributed by James Arthur Boucher.

/*
* 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/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: IJG

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
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.
 */
#if defined _WIN32
 ifndef __RPCNDR_H__		/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN		/* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */
#if defined JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 */
* Other applications can ignore these.

*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjjpeg.c or djjpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
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*
* 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.

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# 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
No license file was found, but licenses were detected in source scan.

**IJJ JPEG LIBRARY: CODING RULES**

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For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJJ FTP archive (see

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}

with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
  code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETH, defined as
#ifdef HAVE_PROTOTYPES
#define JMETH(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETH(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
  JMETH(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETH(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
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 cjpegc.c and djpegc.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

/
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy decoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
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 *
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 * *
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 * this list of conditions and the following disclaimer in the documentation
 * and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
 *
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 */

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/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/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
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/bmp.c
No license file was found, but licenses were detected in source scan.

From c51b666ebcace2adec0cfbe42d25cb418ed0c02a2 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_OUTOF RANGE 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.
* 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_OUTOF RANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@
 typedef struct _bmp_source_struct {
     uint32 row_width; /* Physical width of scanlines in file */
     int bits_per_pixel; /* remembers 8- or 24-bit format */
+    int cmap_length; /* colormap length */
     JSAMPARRAY colormap; /* colormap */
 } bmp_source_struct;

@@ -124,6 +125,7 @@
     outptr = source->pub.buffer[0];
     for (col = cinfo->image_width; col > 0; col--) {
         t = GETJSAMPLE(*inptr);
-        if (t >= cmaplen)
+        if (t >= cmaplen)
            ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
         *outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
     }

@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
 source->colormap = (*cinfo->mem->alloc_sarray)
 (j_common_ptr) cinfo, JPOOL_IMAGE,
 (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+source->cmap_length = (int)biClrUsed;
 /* and read it from the file */
 read_colormap(source, (int) biClrUsed, mapentrysize);
 /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
 JSAMPROW pixrow;/* FAR pointer to same */
 size_t buffer_width;/* width of I/O buffer */
 JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
- int maxval;
+ unsigned int maxval;
 } ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
 }

 if (val > maxval)
- ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+ ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

     return val;
 }
--
2.17.2

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains downampling 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 downampler produces v_samp_factor sample rows. A single row group is processed in each call to the downampler module.

The downampler 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 downampler 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.


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.

Package: __PKGNAME__
Version: __VERSION__-__BUILD__
Section: misc
Priority: optional
Architecture: [__ARCH]
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmpl

No license file was found, but licenses were detected in source scan.

*/
* jsimd_x86_64.c
 *
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
 *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/
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.

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*******************************************************************************
**     License
*******************************************************************************
Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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
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 repointer 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
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:

#define JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

cjstest.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.

```
#endif
```

```
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_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

** Performance Pitfalls

Restart Markers

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

Fast Integer Forward DCT at High Quality Levels

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
  * that is, reading raw DCT coefficient arrays from an input JPEG file.
  * The routines in jdapimin.c will also be needed by a transcoder.
  */

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.c
  
No license file was found, but licenses were detected in source scan.

/ *
  * jdphuff.c
  *
  * Copyright (C) 1995-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains Huffman entropy decoding routines for progressive JPEG.
  *
  * Much of the complexity here has to do with supporting input suspension.
  * If the data source module demands suspension, we want to be able to back
  * up to the start of the current MCU. To do this, we copy state variables
  * into local working storage, and update them back to the permanent
  * storage only upon successful completion of an MCU.
  */

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c
  
No license file was found, but licenses were detected in source scan.

/ *
  * jcmaster.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1991-1997, Thomas G. Lane.
  * Modified 2003-2010 by Guido Vollbeding.
  *
  * Modifications:
  * Copyright (C) 2010, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains master control logic for the JPEG compressor.
  * These routines are concerned with parameter validation, initial setup,
  * and inter-pass control (determining the number of passes and the work
  * to be done in each pass).
  */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 */

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 */

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 */
Copyright (C) 2010, D. R. Commander
For conditions of distribution and use, see the accompanying README file.

JPEG compatibility macros
These declarations are considered internal to the JPEG library; most
applications using the library shouldn't need to include this file.

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.

This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1996, Thomas G. Lane.
Modifications:
Copyright (C) 2009-2012, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file contains input colorspace conversion routines.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)
[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and 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 MASKMOVQDQU 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.

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 jsimdefg.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 >= 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.

[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================================================================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgTest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.
configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93

[1] 2982659. Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
***************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.
***************************************************************************
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h

No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables fileRead quantization tables from text file
 * -scans fileRead scan script from text file
 * -quality N[,N,...]Set quality ratings
 * -qslots N[,N,...]Set component quantization table selectors
 * -sample HxV,[HxV,...]Set component sampling factors
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c

No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; 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.e17.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to write output images in Targa format.
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * 
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.e17.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.

/*
 * wrgif.c
 *
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 * This file is part of the Independent JPEG Group's software.
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 * 
 * 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
This code is loosely based on ppm2gif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
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that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
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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
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Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)
A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

**Compression details**

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part
of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```
4. `jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   `jpeg_write_scanlines(...);

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:
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().
Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```
where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you
may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate
data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a
little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines()
one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines()
will return up to that many lines. The return value is the number of lines
actually read. The format of the returned data is discussed under "Data
formats", above. Don't forget that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write
out the image in bottom-to-top order, you can use the JPEG library's virtual
array mechanism to invert the data efficiently. Examples of this can be
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far
in the output_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The
image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that
jpeg_read_scanlines() reads at least one scanline per call, until the
bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that
jpeg_read_scanlines() fills it. (The current implementation returns only a
few scanlines per call, no matter how large a buffer you pass.) So you must
always provide a loop that calls jpeg_read_scanlines() repeatedly until the
whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to
complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

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, jmmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding.
of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
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 FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
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:

```c
/* 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);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```c
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

```c
JDIMENSION jpeg_width
JDIMENSION jpeg_height
```
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```c
int component_id
```
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

```c
int h_samp_factor
int v_samp_factor
```
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

```c
int quant_tbl_no
```
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

```c
int dc_tbl_no
int ac_tbl_no
```
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

```c
int component_index
```
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

**Decompression parameter selection**

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Color space 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 color space. 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, colormapmed 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 => YCbCr and CMYK => YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation.

jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling

----------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...)for fatal errors
WARNMSn(...)for corrupt-data warnings
TRACEMSn(...)for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.
Compressed data handling (source and destination managers)

----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```c
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
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

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what’s needed to produce output. This is done by calling the routine jpeg_consume_input().

The return value is one of the following:

- `JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)
- `JPEG_REACHED_EOI`: reached the EOI marker (end of image)
- `JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data
- `JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library's output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait until that scan starts to arrive before producing any output. (To avoid
an infinite loop, the target scan number is automatically reset to the last
scan number when the end of image is reached. Thus, if you specify a large
target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what
jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number,
the image is displayed no faster than the current input scan arrives. The
final possibility is to pass a target scan number less than the current input
scan number; this disables the input/output interlock and causes the output
processor to simply display whatever it finds in the image buffer, without
waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance
through the image, jpeg_consume_input() will store data into the buffered
image beyond the point at which the output processing is reading data out
again. If the input arrives fast enough, it may "wrap around" the buffer to
the point where the input is more than one whole scan ahead of the output.
If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower
part of the image is one or more scans better in quality than the upper part.
Then, when the next output scan is started, you have a choice of what target
scan number to use. The recommended choice is to use the current input scan
number at that time, which implies that you've skipped the output scans
corresponding to the input scans that were completed while you processed the
previous output scan. In this way, the decoder automatically adapts its
speed to the arriving data, by skipping output scans as necessary to keep up
with the arriving data.

When using this strategy, you'll want to be sure that you perform a final
output pass after receiving all the data; otherwise your last display may not
be full quality across the whole screen. So the right outer loop logic is
something like this:

```c
    do {
        absorb any waiting input by calling jpeg_consume_input()
        final_pass = jpeg_input_complete(&cinfo);
        adjust output decompression parameters if required
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
    } while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:

```c
    for (;;) {
        absorb any waiting input by calling jpeg_consume_input()
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
        if (jpeg_input_complete(&cinfo) &&
            cinfo.input_scan_number == cinfo.output_scan_number)
```

```c
```
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_quantFixed color cube colormap
enable_external_quantExternally-supplied colormap
enable_2pass_quantTwo-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
If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.
To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is:

- create JPEG decompression object
- set source to tables-only file
- jpeg_read_header(&cinfo, FALSE);
- set source to abbreviated image file
- jpeg_read_header(&cinfo, TRUE);
- set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary
garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version
numbers. To reduce compatibility risks it's safest not to write 1.02 unless
you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers
   into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers
   on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending
data source; writing a marker processor that copes with input suspension is
not easy (consider what happens if the marker is longer than your available
input buffer). However, the second method conserves memory since the marker
data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a
decompression object and before calling jpeg_read_header(), because the
markers of interest will typically be near the head of the file and so will
be scanned by jpeg_read_header. Once you've established a marker handling
method, it will be used for the life of that decompression object
(potentially many datastreams), unless you change it. Marker handling is
determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each 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

\[ cinfo->comp_info[i].width_in_blocks*DCTSIZE \text{ samples per row} \]
\[ cinfo->comp_info[i].height_in_blocks*DCTSIZE \text{ rows in image} \]

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
\[ cinfo->comp_info[0].h_samp_factor = 2 \text{ for Y} \]
\[ cinfo->comp_info[0].v_samp_factor = 2 \]
\[ cinfo->comp_info[1].h_samp_factor = 1 \text{ for Cb} \]
\[ cinfo->comp_info[1].v_samp_factor = 1 \]
\[ cinfo->comp_info[2].h_samp_factor = 1 \text{ for Cr} \]
\[ cinfo->comp_info[2].v_samp_factor = 1 \]

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 completed_passes + (pass_counter/pass_limit) / total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmennobs.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 jmename.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 jmennobs.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.

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/libjpeg/turbo/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.

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

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/jdcolext.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.

; 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/jsimdct.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/jsimddct.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/jsimddct.h
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.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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.

/*
  * 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/jidctflt.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.

/* Copyright (C)2009-2012 D. R. Commander. All Rights Reserved.
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* - Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* - Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation 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/tbenc.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/tbunittest.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.

/*
 * 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.

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.

/*
 * 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.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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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.
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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 * *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.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.

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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/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/jsimd/jimmxred.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/jsimd/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-Cd49Tbdf/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-Cd49Tbdf/libjpeg-turbo-1.2.90/simd/jcgrys2-64.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-Cd49Tbdf/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-Cd49Tbdf/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-Cd49Tbdf/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-Cd49Tbdf/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-Cd49Tbdf/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-Cd49Tbdf/libjpeg-turbo-1.2.90/simd/jccolmmx.asm
1.2.90/simd/jdclrmnx.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-Cd49Tbddd/libjpeg-turbo-1.2.90/simd/jdmrmnx.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-Cd49Tbddd/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-Cd49Tbddd/libjpeg-turbo-1.2.90/simd/jcgrys2.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-Cd49Tbddd/libjpeg-turbo-1.2.90/simd/jf3dnlflt.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-Cd49Tbddd/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-Cd49Tbddd/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-Cd49Tbddd/libjpeg-turbo-1.2.90/simd/jcqnt3dn.asm
/*
 * 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 stdout 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

1.2985 libaio 0.3.109-13.el7
1.2985.1 Available under license :

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Version 2.1, February 1999

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1.2988 perl-time-hires 1.9725-3.el7

1.2988.1 Available under license:
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Time::HiRes module: High resolution time, sleep, and alarm.

Implement usleep, ualarm, and gettimeofday for Perl, as well as wrappers 
to implement time, sleep, and alarm that know about non-integral seconds.

Note: the tests of this module are by definition time sensitive: under 
heavy loads the tests may fail. Reasonable relaxed criteria are being 
used for the tests but sometimes you may still see transient failures. 
Rerun the tests (make test) a couple of times, preferably with less 
load on the testing machine.
Also, older versions of Perl do not support `-nolinenumbers' on the XSUBPP command, however, 5.004_03 requires it (on my box, anyway) since the #line generating code in XSUBPP appears to have problems with #ifdef’d .xs code. If xsubpp complains about usage when you do a make, look at the top of the Makefile.PL and comment out the "$XSOPT=" line. Or upgrade to a newer version of Perl.

POD documentation is embedded.


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Found in path(s):
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---

abstract: 'High resolution alarm, sleep, gettimeofday, interval timers'
author:
  - 'Jarkko Hietaniemi <jhi@iki.fi>'
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112621'
license: unknown
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Time-HiRes
no_index:
  directory:
    - t
    - inc
requires:
  Carp: 0
  Config: 0
  DynaLoader: 0
  Exporter: 0
ExtUtils::MakeMaker: 0
Test::More: 0.82
strict: 0
version: 1.9725

Found in path(s):
* /opt/cola/permits/1152389352_1618226999.19/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-
x6w1ZS5H/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-FSa8l4Uy/Time-HiRes-1.9725/META.yml
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/*
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x6w1ZS5H/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-FSa8l4Uy/Time-HiRes-1.9725/HiRes.xs
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/*

ppport.h -- Perl/Pollution/Portability Version 3.13

Automatically created by Devel::PPPort running under perl 5.008008.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

_________________________________________________________________

SKIP

=pod

=head1 NAME
ppport.h - Perl/Pollution/Portability version 3.13

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=I<file> write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.
Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.
Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `C<PL_>` prefix is deprecated. Also, some API functions used to have a `C<perl_>` prefix. Using this form is also deprecated. You can safely use the supported API, as `F<ppport.h>` will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `F<ppport.h>`. These functions or variables will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<
DPPPNAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>. 

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.
If this version of `ppport.h` is causing failure during
the compilation of this module, please check if newer versions
of either this module or `Devel::PPPort` are available on CPAN
before sending a bug report.

If `ppport.h` was generated using the latest version of
`Devel::PPPort` and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at

Please include the following information:

1. The complete output from running "perl -V"
2. This file.
3. The name and version of the module you were trying to build.
4. A full log of the build that failed.
5. Any other information that you think could be relevant.

For the latest version of this code, please get the `Devel::PPPort`
module from CPAN.

---

For the latest version of this code, please get the `Devel::PPPort`
module from CPAN.

---

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.13;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /(/w.)+/; my $LF = '(?:\r\n|\[\n\])'; my $HS = '[ \t]'; # line feed, horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*'; my $cce = '\*/'; my $rcce = quotemeta $ccs; my $rrccs = quotemeta $cce;

eval {
require Getopt::Long;
Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/, @ARGV) {
usage() if "$ARGV" =~ /^-?h(?:elp)?/;$}
die "Getopt::Long not found. Please don't use any options.";
}

if ($opt{version}) {
  print "This is $0 $VERSION\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]*)|([^|]*)|\w*)$/
  ? ($1 => {
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1  ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ())
  })
  : die "invalid spec: $_" } qw(
AvFILL-p|5.004050||p
AvFILL||
CLASS||
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
PERL_LONG_MAX[5.004000]p
PERL_LONG_MIN[5.004000]p
PERL_MAGIC_arylen[5.007002]p
PERL_MAGIC_backref[5.007002]p
PERL_MAGIC_bm[5.007002]p
PERL_MAGIC_collxfrm[5.007002]p
PERL_MAGIC_dbfile[5.007002]p
PERL_MAGIC_dbline[5.007002]p
PERL_MAGIC_defelem[5.007002]p
PERL_MAGIC_envelem[5.007002]p
PERL_MAGIC_env[5.007002]p
PERL_MAGIC_ext[5.007002]p
PERL_MAGIC_fm[5.007002]p
PERL_MAGIC_glob[5.009005]p
PERL_MAGIC_isaelem[5.007002]p
PERL_MAGIC_isa[5.007002]p
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to_uni_fold5.007003
to_uni_lower_lc5.006000
to_uni_lower5.007003
to_uni_title_lc5.006000
to_uni_title5.007003
to_uni_upper_lc5.006000
to_uni_upper5.007003
to_utf8_case5.007003
to_utf8_fold5.007003
to_utf8_lower5.007003
to_utf8_substr||
to_utf8_title5.007003
to_utf8_upper5.007003
token_free||
token_getmad||
tokenize_use||
tokeq||
tokereport||
too_few_arguments

too_many_arguments

too_few_arguments|||

too_many_arguments|||

univ_2buf][p

unlink][

unpack_rec][

unpack_str][5.007003]

unpackstring][5.008001]

unshare_hck_or_pvn][

unshare_hck][

unsharepvn][5.004000]

unwind_handler_stack][

update_debugger_info][

upg_version][5.009005]

usage][

utf16_to_utf8_reversed][5.006001]

utf16_to_utf8][5.006001]

utf8_distance][5.006000]

utf8_hop][5.006000]

utf8_length][5.007001]

utf8_mg_pos_cache_update][

utf8_to_bytes][5.006001]

utf8_to_uvchar][5.007001]

utf8_to_uvuni][5.007001]

utf8n_to_uvchar][

utf8n_to_uvuni][5.007001]

utilize][

uvchr_to_utf8_flags][5.007003]

uvchr_to_utf8][

uvuni_to_utf8_flags][5.007003]

uvuni_to_utf8][5.007001]

validate_suid][

varname][

vcmp][5.009000]

vcroak][5.006000]

vdeb][5.007003]

vdie_common][

vdie_croak_common][

vform][

visit][

vivify_defelem][

vivify_ref][

vload_module][5.006000][p

vmess][5.006000]

vnewSVpvn][5.006000][5.004000][p

vnormal][5.009002]

vnumify][5.009000]

vstringify][5.009000]

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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "un";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api {
    my $code = shift;
    $code =~ s{
        /(?:\*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \/[^
\*]*| \"[^\\]*(?:\\.[^\\]*)*"| '[^'\\]*(?:\\.[^'\\]*)* ' }{}egsx;
    
    # Scan for possible replacement candidates
grep { exists $API{$_} } $code =~ /\w+/mg;
}

while (<DATA>) {
  if ($hint) {
    my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
    if ($hint->[1]) {
      for (@{$hint->[1]}) {
        $h->{$_} ||= '';  # suppress warning with older perls
        $h->{$_} .= $1;
      }
    }
    else { undef $hint }
  }

  $hint = [$1, [split /,\s+/, $2]]
  if ($define) {
    if ($define->[1] =~ /\s+/) {
      $define->[1] .= $_;
    }
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\d+/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }

  $define = [$1, $2] if m{^\s*#\s*define\s+\(\w+\)?\s+(.*)};

if ($function) {
  if (/\^\$/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $define;
  }
  else {
    $function->[1] .= $_;
  }
}

}$function = [$1, ""] if m{^DPPP_\(my\(.\w+\))\};
$replace = $1 if m{^\s*$rcce\s+Replace:.*$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*$\#define.*\$rcce\s*$};
$replace{$2} = $1 if m{^\s*$\#define.*\$rcce\s*$};
$replace{$1} = $2 if m{^\s*$rcce\s+Replace.*$rcce\s*$};

if (m{^\s*$rcce\s+depends.*$rcce\s*$}) {
    push @{$depends{$1}}, map { s/\s+/\g<_>/; $_.} split /,/, $2;
}

$need{$1} = 1 if m{^\s*$\#if\s+defined\(NEED\(_\w+\)?:_GLOBAL\)!\$};

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = Sopt['api-info'] =~ m!^(\S*)/$! ? $1 : "^Q$opt['api-info']\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "=== $f ===

        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: ", join(',', @{$depends{$f}}), ":\n" if exists $depends{$f};
            print "\nShints\{[$f]\}" if exists Shints{$f};
            print "\nWARNING:\n\nWarnings\{[$f]\}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching \'$opt\['api-info']\'.\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  [' . join(',', @flags) . '] ' : '';
    print "$f$flags\n";
}
exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "$_ is not a file.\n" }
        } else {
            my @new = grep { -f } glob $_
            or warn "$_ does not exist.\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
            and push @files, $File::Find::name;
        }, '.');
    };
    if ($@) {
        @files = map { glob "*$_" } @srcext;
    }
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

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my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}

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# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");

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for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}($func)) {
    if (exists $file{uses_deps}($func)) {
      diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}($func)}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
    format_version($API{$func}{todo}), ", even with '$ppport'un";
    $warnings++;}
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}($func)) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}($func) && $file{needs}($func) ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}($func)) {
    $message = "No need to define NEED_$func_GLOBAL if $func is never used";
  } elsif (exists $file{needs}($func) eq 'extern') {
    $message = "No need to define NEED_$funcLOBAL when already needed globally";
  } elsif ($file{needs}($func) eq 'static') {
    $message = "No need to define NEED_$funcLOBAL when only used in this file";
$file{changes} += ($c =~ s/^(?!$HS*#$HS*define$HS+NEED_\w+.*$LF//mg);
}
}

$filename{needs_inc_ppport} = keys %{$file{uses}};

if ($filename{needs_inc_ppport}) {
  my $pp = "
  for $func (sort keys %{$filename{needs}}) {
    my $type = $filename{needs}[$func];
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $filename{needed_\$type}[$func]) {
      if ($type eq 'global') {
        diag("Files [@{ $filename{needs}[$func]}\] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "
    $filename{changes}++;
  }
  unless ($filename{has_inc_ppport}) {
    diag("Needs to include 'ppport'");
    $pp .= qq(#include "$ppport\n")
  }
  if ($pp) {
    $filename{changes} += ($c =~ s/(SHS*SHS*defineSHS*NEED_\w+.*/$pp/m)
      || ($c =~ s/(SHS*SHS*include.*$ppport\E)/$pp/m)
      || ($c =~ s/(SHS*SHS*include.*XSUB.*\s*/$pp/m)
      || ($c =~ s/\$/pp/);
  }
  else {
    if ($filename{has_inc_ppport}) {
      diag("No need to include 'ppport'");
    }
  }
}
}
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
}
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}"
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        }
        else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'\n                print F $c;
                close F;
            }
            else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    }
    elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
if (open PATCH, ">$opt{patch}") {
    $patch_opened = 1;
}
else {
    error("Cannot open '$opt{patch}' for writing: $!");
delete $opt{patch};
$opt{changes} = 1;
goto fallback;
}
}
mydiff(*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff {
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;
    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
--- $file
+++ $file.patched

HEADER

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp") {
            while (<F>) {
                s/Q$files\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    }
}

unlink $tmp;
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend
{
  my($func, $seen) = @_;;
  return () unless exists $depends{$func};
  $seen = @{$seen||{}};;
  return () if $seen->{func}++;;
  my %s;
  grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
  @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;
  if ($ver =~ /^\d+\.(\d+).(\d+)/) {
    return ($1, $2, $3);
  }
  elsif ($ver !~ /^\d+\.[^\d_]+$/) {
    die "cannot parse version '$ver'\n";
  }
  $ver =~ s/_//g;
  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\d+\.\d{3}(\d)/;
  $v = int $v;
  $s = int $s;
  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "cannot parse version '$ver'\n";
    }
  }
  return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;

  if ($ver =~ /\d+\.(\d+)/) {
    return ($1);
  }
  elsif ($ver !~ /^\d+\.[^\d_]+$/) {
    die "cannot parse version '$ver'\n";
  }
  $ver =~ s/_//g;
  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\.(\d{3})/;
  $v = int $v;
  $s = int $s;
  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "cannot parse version '$ver'\n";
    }
  }
  return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+)-(\d{3})-(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'\n";
    }
    $s /= 10;
}

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "._%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
sub usage
{
  my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
  my %M = ( 'I' => '*' );
  $usage =~ s/\s*perl\s+\S+/\^X $0/;
  $usage =~ s/\[A-Z]\<\[^>]+>/\^X $1\^/gsm;
  print <<ENDUSAGE;
  Usage: $usage
  See perldoc $0 for details.
ENDUSAGE
  exit 2;
}

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> };
  my $copy = $self =~ /^=head\d$HS+COPYRIGHT\s*^(.*?)^=\w+/ms;
  my $copy = s/^\s{4}(?=%)/\^/gms;
  $copy =~ s/^\s*$\+/\$0/;
  $self =~ s/\^\s*\)+/\$1\^s/M/s/g;
  $self =~ s/\^\s*\)+/\$1\^s/M/s/g;
  if (!@ARGV && \$ARGV[0] eq '--unstrip') { eval { require Devel::PPPort }; \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if ($Devel::PPPort::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION.\n"
    }
  }
}
"Your Devel::PPPort is only version $Devel::PPPort::VERSION\n"  
"Please install a newer version, or --unstrip will not work.\n"
}
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;

Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X $0 --unstrip

END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{|
  /(?:[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[^\r
]*
)| ("[^"\\]*(?:\\.[^"\\]*)*
| '\[^'\\]*(?:\\.[^'\\]*)*' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^\r\n!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1152389352_1618226999.19/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-x6w1ZS5H/perl-Time-HiRes.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

=head1 SYNOPSIS

use Time::HiRes qw( usleep ualarm gettimeofday tv_interval nanosleep
      clock_gettime clock_getres clock_nanosleep clock

usleep ($microseconds);
nanosleep ($nanoseconds);
ualarm ($microseconds);
ualarm ($microseconds, $interval_microseconds);

$t0 = [gettimeofday];
($seconds, $microseconds) = gettimeofday;

$elapsed = tv_interval ( $t0, [seconds, $microseconds]);
$elapsed = tv_interval ( $t0, [gettimeofday]);
$elapsed = tv_interval ( $t0 );

use Time::HiRes qw ( time alarm sleep);

$now_fractions = time;
sleep ($floating_seconds);
alarm ($floating_seconds);
alarm ($floating_seconds, $floating_interval);

use Time::HiRes qw( setitimer getitimer );

setitimer ($which, $floating_seconds, $floating_interval);
getitimer ($which);

use Time::HiRes qw( clock_gettime clock_getres clock_nanosleep
      ITIMER_REAL ITIMER_VIRTUAL ITIMER_PROF ITIMER_REALPROF );

$realtime   = clock_gettime(CLOCK_REALTIME);
$resolution = clock_getres(CLOCK_REALTIME);

clock_nanosleep(CLOCK_REALTIME, 1.5e9);
clock_nanosleep(CLOCK_REALTIME, time()*1e9 + 10e9, TIMER_ABSTIME);

my $ticktock = clock();
use Time::HiRes qw( stat );

my @stat = stat("file");
my @stat = stat(FH);

=head1 DESCRIPTION

The C<Time::HiRes> module implements a Perl interface to the
C<usleep>, C<nanosleep>, C<ualarm>, C<gettimeofday>, and
C<setitimer>/C<getitimer> system calls, in other words, high
resolution time and timers. See the L</EXAMPLES> section below and the
test scripts for usage; see your system documentation for the
description of the underlying C<nanosleep> or C<usleep>, C<ualarm>,
C<gettimeofday>, and C<setitimer>/C<getitimer> calls.

If your system lacks C<gettimeofday()> or an emulation of it you don't
get C<gettimeofday()> or the one-argument form of C<tv_interval()].
If your system lacks all of C<nanosleep()], C<usleep>(),
C<select()], and C<poll>, you don't get C<Time::HiRes::usleep>(),
C<Time::HiRes::nanosleep>(), or C<Time::HiRes::sleep()].
If your system lacks both C<ualarm()> and C<setitimer()> you don't get
C<Time::HiRes::ualarm()> or C<Time::HiRes::alarm()>.

If you try to import an unimplemented function in the C<use> statement
it will fail at compile time.

If your subsecond sleeping is implemented with C<nanosleep()> instead
of C<usleep>(), you can mix subsecond sleeping with signals since
C<nanosleep()> does not use signals. This, however, is not portable,
and you should first check for the truth value of
C<&Time::HiRes::d_nanosleep> to see whether you have nanosleep, and
then carefully read your C<nanosleep()> C API documentation for any
peculiarities.

If you are using C<nanosleep> for something else than mixing sleeping
with signals, give some thought to whether Perl is the tool you should
be using for work requiring nanosecond accuracies.

Remember that unless you are working on a I<hard realtime> system,
any clocks and timers will be imprecise, especially so if you are working
in a pre-emptive multiuser system. Understand the difference between
I<wallclock time> and process time (in UNIX-like systems the sum of
I<user> and I<system> times). Any attempt to sleep for X seconds will
most probably end up sleeping B<more> than that, but don't be surprised
if you end up sleeping slightly B<less>.

The following functions can be imported from this module.
No functions are exported by default.
=over 4

=item gettimeofday ()

In array context returns a two-element array with the seconds and microseconds since the epoch. In scalar context returns floating seconds like C<Time::HiRes::time()> (see below).

=item usleep ( $useconds )

Sleeps for the number of microseconds (millionths of a second) specified. Returns the number of microseconds actually slept. Can sleep for more than one second, unlike the C<usleep> system call. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::usleep()>, C<Time::HiRes::sleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect usleep() to be exact down to one microsecond.

=item nanosleep ( $nanoseconds )

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept (accurate only to microseconds, the nearest thousand of them). Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item ualarm ( $useconds [, $interval_useconds ] )

Issues a C<ualarm> call; the C<$interval_useconds> is optional and will be zero if unspecified, resulting in C<alarm>-like behaviour.

Returns the remaining time in the alarm in microseconds, or C<undef> if an error occurred.

ualarm(0) will cancel an outstanding ualarm().

Note that the interaction between alarms and sleeps is unspecified.

=item tv_interval

tv_interval ( $ref_to_gettimeofday [, $ref_to_later_gettimeofday] )
Returns the floating seconds between the two times, which should have been returned by C<gettimeofday()>. If the second argument is omitted, then the current time is used.

=item time ()

Returns a floating seconds since the epoch. This function can be imported, resulting in a nice drop-in replacement for the C<time> provided with core Perl; see the L</EXAMPLES> below.

B<NOTE 1>: This higher resolution timer can return values either less or more than the core C<time()> , depending on whether your platform rounds the higher resolution timer values up, down, or to the nearest second to get the core C<time()> , but naturally the difference should be never more than half a second. See also L</clock_getres>, if available in your system.

B<NOTE 2>: Since Sunday, September 9th, 2001 at 01:46:40 AM GMT, when the C<time()> seconds since epoch rolled over to 1_000_000_000, the default floating point format of Perl and the seconds since epoch have conspired to produce an apparent bug: if you print the value of C<Time::HiRes::time()> you seem to be getting only five decimals, not six as promised (microseconds). Not to worry, the microseconds are there (assuming your platform supports such granularity in the first place). What is going on is that the default floating point format of Perl only outputs 15 digits. In this case that means ten digits before the decimal separator and five after. To see the microseconds you can use either C<printf>/C<sprintf> with C<%:.6f>, or the C<gettimeofday()> function in list context, which will give you the seconds and microseconds as two separate values.

=item sleep ( $floating_seconds )

Sleeps for the specified amount of seconds. Returns the number of seconds actually slept (a floating point value). This function can be imported, resulting in a nice drop-in replacement for the C<sleep> provided with perl, see the L</EXAMPLES> below.

Note that the interaction between alarms and sleeps is unspecified.

=item alarm ( $floating_seconds [, $interval_floating_seconds ] )

The C<SIGALRM> signal is sent after the specified number of seconds. Implemented using C<setitimer()> if available, C<ualarm()> if not. The C<$interval_floating_seconds> argument is optional and will be zero if unspecified, resulting in C<alarm()>-like behaviour. This function can be imported, resulting in a nice drop-in replacement for the C<alarm> provided with perl, see the L</EXAMPLES> below.
Returns the remaining time in the alarm in seconds, or C<undef>
if an error occurred.

B<NOTE 1>: With some combinations of operating systems and Perl
releases C<SIGALRM> restarts C<select>(), instead of interrupting it.
This means that an C<alarm()> followed by a C<select()> may together
take the sum of the times specified for the C<alarm()> and the
C<select>(), not just the time of the C<alarm>().

Note that the interaction between alarms and sleeps is unspecified.

=item setitimer ( $which, $floating_seconds [, $interval_floating_seconds ] )

Start up an interval timer: after a certain time, a signal ($which) arrives,
and more signals may keep arriving at certain intervals. To disable
an "timer", use C<$floating_seconds> of zero. If the
C<$interval_floating_seconds> is set to zero (or unspecified), the
timer is disabled B<after> the next delivered signal.

Use of interval timers may interfere with C<alarm()>, C<sleep()>,
and C<usleep()>. In standard-speak the "interaction is unspecified",
which means that I<anything> may happen: it may work, it may not.

In scalar context, the remaining time in the timer is returned.

In list context, both the remaining time and the interval are returned.

There are usually three or four interval timers (signals) available: the
C<$which> can be C<ITIMER_REAL>, C<ITIMER_VIRTUAL>, C<ITIMER_PROF>, or
C<ITIMER_REALPROF>. Note that which ones are available depends: true
UNIX platforms usually have the first three, but only Solaris seems to
have C<ITIMER_REALPROF> (which is used to profile multithreaded programs).
Win32 unfortunately does not have interval timers.

C<ITIMER_REAL> results in C<alarm()>-like behaviour. Time is counted in
I<real time>; that is, wallclock time. C<SIGALRM> is delivered when
the timer expires.

C<ITIMER_VIRTUAL> counts time in (process) I<virtual time>; that is,
only when the process is running. In multiprocessor/user/CPU systems
this may be more or less than real or wallclock time. (This time is
also known as the I<user time>.) C<SIGVTALRM> is delivered when the
timer expires.

C<ITIMER_PROF> counts time when either the process virtual time or when
the operating system is running on behalf of the process (such as I/O).
(This time is also known as the I<system time>.) (The sum of user
time and system time is known as the I<CPU time>).  C<SIGPROF> is
delivered when the timer expires.  C<SIGPROF> can interrupt system calls.

The semantics of interval timers for multi-threaded programs are
system-specific, and some systems may support additional interval
timers.  For example, it is unspecified which thread gets the signals.
See your C<setitimer()> documentation.

=item getitimer ( $which )

Return the remaining time in the interval timer specified by C<$which>.

In scalar context, the remaining time is returned.

In list context, both the remaining time and the interval are returned.
The interval is always what you put in using C<setitimer()>.

=item clock_gettime ( $which )

Return as seconds the current value of the POSIX high resolution timer
specified by C<$which>.  All implementations that support POSIX high
resolution timers are supposed to support at least the C<$which> value
of C<CLOCK_REALTIME>, which is supposed to return results close to the
results of C<gettimeofday>, or the number of seconds since 00:00:00:00
January 1, 1970 Greenwich Mean Time (GMT).  Do not assume that
CLOCK_REALTIME is zero, it might be one, or something else.
Another potentially useful (but not available everywhere) value is
C<CLOCK_MONOTONIC>, which guarantees a monotonically increasing time
value (unlike time() or gettimeofday(), which can be adjusted).
See your system documentation for other possibly supported values.

=item clock_getres ( $which )

Return as seconds the resolution of the POSIX high resolution timer
specified by C<$which>.  All implementations that support POSIX high
resolution timers are supposed to support at least the C<$which> value
of C<CLOCK_REALTIME>, see L</clock_gettime>.

=item clock_nanosleep ( $which, $nanoseconds, $flags = 0)

Sleeps for the number of nanoseconds (1e9ths of a second) specified.
Returns the number of nanoseconds actually slept.  The $which is the
"clock id", as with clock_gettime() and clock_getres().  The flags
default to zero but C<TIMER_ABSTIME> can specified (must be exported
explicitly) which means that C<$nanoseconds> is not a time interval
(as is the default) but instead an absolute time.  Can sleep for more
than one second.  Can also sleep for zero seconds, which often works
like a I<thread yield>.  See also C<Time::HiRes::sleep()>.
C<Time::HiRes::usleep()>, and C<Time::HiRes::nanosleep()>.

Do not expect clock_nanosleep() to be exact down to one nanosecond.
Getting even accuracy of one thousand nanoseconds is good.

=item clock()

Return as seconds the I<process time> (user + system time) spent by
the process since the first call to clock() (the definition is B<not>
"since the start of the process", though if you are lucky these times
may be quite close to each other, depending on the system). What this
means is that you probably need to store the result of your first call
to clock(), and subtract that value from the following results of clock().

The time returned also includes the process times of the terminated
child processes for which wait() has been executed. This value is
somewhat like the second value returned by the times() of core Perl,
but not necessarily identical. Note that due to backward
compatibility limitations the returned value may wrap around at about
2147 seconds or at about 36 minutes.

=item stat

=item stat FH

=item stat EXPR

As L<perlfunc/stat> but with the access/modify/change file timestamps
in subsecond resolution, if the operating system and the filesystem
both support such timestamps. To override the standard stat():

    use Time::HiRes qw(stat);

Test for the value of &Time::HiRes::d_hires_stat to find out whether
the operating system supports subsecond file timestamps: a value
larger than zero means yes. There are unfortunately no easy
ways to find out whether the filesystem supports such timestamps.
UNIX filesystems often do; NTFS does; FAT doesn't (FAT timestamp
granularity is B<two> seconds).

A zero return value of &Time::HiRes::d_hires_stat means that
Time::HiRes::stat is a no-op passthrough for CORE::stat(),
and therefore the timestamps will stay integers. The same
thing will happen if the filesystem does not do subsecond timestamps,
even if the &Time::HiRes::d_hires_stat is non-zero.

In any case do not expect nanosecond resolution, or even a microsecond
resolution. Also note that the modify/access timestamps might have
different resolutions, and that they need not be synchronized, e.g.
if the operations are

write
stat # t1
read
stat # t2

the access time stamp from t2 need not be greater-than the modify
time stamp from t1: it may be equal or less.

=back

=head1 EXAMPLES

use Time::HiRes qw(usleep ualarm gettimeofday tv_interval);

$microseconds = 750_000;
usleep($microseconds);

# signal alarm in 2.5s & every .1s thereafter
ualarm(2_500_000, 100_000);
# cancel that ualarm
ualarm(0);

# get seconds and microseconds since the epoch
($s, $usec) = gettimeofday();

# measure elapsed time
# (could also do by subtracting 2 gettimeofday return values)
$t0 = [gettimeofday];
# do bunch of stuff here
$t1 = [gettimeofday];
# do more stuff here
$t0_t1 = tv_interval $t0, $t1;

$elapsed = tv_interval ($t0, [gettimeofday]);
$elapsed = tv_interval ($t0); # equivalent code

# replacements for time, alarm and sleep that know about
# floating seconds
#
use Time::HiRes;
$now_fractions = Time::HiRes::time;
Time::HiRes::sleep (2.5);
Time::HiRes::alarm (10.6666666);
use Time::HiRes qw ( time alarm sleep );
$now_fractions = time;
sleep (2.5);
alarm (10.6666666);

# Arm an interval timer to go off first at 10 seconds and
# after that every 2.5 seconds, in process virtual time

use Time::HiRes qw ( setitimer ITIMER_VIRTUAL time );

$SIG{VTALRM} = sub { print time, "\n" };
setitimer(ITIMER_VIRTUAL, 10, 2.5);

use Time::HiRes qw( clock_gettime clock_getres CLOCK_REALTIME );
# Read the POSIX high resolution timer.
my $high = clock_getres(CLOCK_REALTIME);
# But how accurate we can be, really?
my $reso = clock_getres(CLOCK_REALTIME);

use Time::HiRes qw( clock_nanosleep TIMER_ABSTIME );
clock_nanosleep(CLOCK_REALTIME, 1e6);
clock_nanosleep(CLOCK_REALTIME, 2e9, TIMER_ABSTIME);

use Time::HiRes qw( clock );
my $clock0 = clock();
... # Do something.
my $clock1 = clock();
my $clockd = $clock1 - $clock0;

use Time::HiRes qw( stat );
my ($atime, $mtime, $ctime) = (stat("istics"))[8, 9, 10];

=head1 C API

In addition to the perl API described above, a C API is available for
extension writers. The following C functions are available in the
modglobal hash:

<table>
<thead>
<tr>
<th>name</th>
<th>C prototype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time::NVtime</td>
<td>double (*)()</td>
</tr>
<tr>
<td>Time::U2time</td>
<td>void (*)(pTHX_ UV ret[2])</td>
</tr>
</tbody>
</table>

Both functions return equivalent information (like C<gettimeofday>)
but with different representations. The names C<NVtime> and C<U2time>
were selected mainly because they are operating system independent.
(C<gettimeofday> is Unix-centric, though some platforms like Win32 and
VMS have emulations for it.)
Here is an example of using `C<
Vtime>` from `C`:

```c
double (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetch(PL_modglobal, "Time::NVtime", 12, 0);
if (!svp) croak("Time::HiRes is required");
if (!SvIOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(double(*), SvIV(*svp));
printf("The current time is: %f\n", (*myNVtime)());
```

=head1 DIAGNOSTICS

=head2 useconds or interval more than ...

In `ualarm()` you tried to use number of microseconds or interval (also in microseconds) more than 1_000_000 and `setitimer()` is not available in your system to emulate that case.

=head2 negative time not invented yet

You tried to use a negative time argument.

=head2 internal error: useconds < 0 (unsigned ... signed ...)

Something went horribly wrong-- the number of microseconds that cannot become negative just became negative. Maybe your compiler is broken?

=head2 useconds or uinterval equal to or more than 1000000

In some platforms it is not possible to get an alarm with subsecond resolution and later than one second.

=head2 unimplemented in this platform

Some calls simply aren't available, real or emulated, on every platform.

=head1 CAVEATS

Notice that the core `C<time()>` maybe rounding rather than truncating. What this means is that the core `C<time()>` may be reporting the time as one second later than `C<gettimeofday()>` and `C<Time::HiRes::time()>`.

Adjusting the system clock (either manually or by services like ntp) may cause problems, especially for long running programs that assume a monotonously increasing time (note that all platforms do not adjust time as gracefully as UNIX ntp does). For example in Win32 (and derived platforms like Cygwin and MinGW) the `Time::HiRes::time()` may temporarily drift off from the system clock (and the original time()) by up to 0.5
seconds. Time::HiRes will notice this eventually and recalibrate. Note that since Time::HiRes 1.77 the clock_gettime(CLOCK_MONOTONIC) might help in this (in case your system supports CLOCK_MONOTONIC).

Some systems have APIs but not implementations: for example QNX and Haiku have the interval timer APIs but not the functionality.

=head1 SEE ALSO

Perl modules L<BSD::Resource>, L<Time::TAI64>.

Your system documentation for C<clock>, C<clock_gettime>, C<clock_getres>, C<clock_nanosleep>, C<clock_settime>, C<getitimer>, C<gettimeofday>, C<sisetimer>, C<sleep>, C<stat>, C<ualarm>.

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=cut

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1.2990 tdom 0.8.2-3.el5

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Found license 'General Public License 2.0' in 'The pari-galdata package provides the Galois resolvents for the polgalois function, for degrees 8 through 11.' <description><pkglist><collection short="EL-5"><name>Fedora EPEL 5</name><package arch="src" epoch="0" name="pari-galdata" release="3.el5.1" src="http://download.fedoraproject.org/pub/fedoraproject.org/pub/fedora/linux/updates/5/SRPMS/pari-galdata-20080411-3.el5.1.src.rpm" version="20080411"> </package></pkglist></description></description>

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branch.</description><pkglist><collection short="EL-5"><name>Fedora EPEL 5</name><package arch="src" epoch="0" name="perl-XML-Stream" release="10.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/SRPMS/perl-XML-Stream-1.22-10.el5.src.rpm" version="1.22"></filename><package arch="noarch" name="perl-XML-Stream" release="10.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/i386/perl-XML-Stream-1.22-10.el5.noarch.rpm" version="1.22"></filename><package arch="src" epoch="0" name="php-nusoap" release="1.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/SRPMS/php-nusoap-0.9.5-1.el5.src.rpm" version="0.9.5"><filename>perl-XML-Stream-1.22-10.el5.src.rpm</filename></package><package arch="noarch" epoch="0" name="php-nusoap" release="1.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/i386/php-nusoap-0.9.5-1.el5.noarch.rpm" version="0.9.5"><filename>perl-XML-Stream-1.22-10.el5.noarch.rpm</filename></package></collection></pkglist></update><update from="updates@fedoraproject.org" status="stable" type="newpackage" version="1.4"><id>FEDORA-EPEL-2010-3320</id><title>php-nusoap-0.9.5-1.el5</title><release>Fedora EPEL 5</release><issued date="2010-09-03 21:23:25"/><reboot_suggested/><references><reference href="https://bugzilla.redhat.com/show_bug.cgi?id=629585" id="629585" title="CVE-2010-3070 php-nusoap: XSS vulnerability due improper escaping of URLs" type="bugzilla"/> fixes XSS vulnerability</description><pkglist><collection short="EL-5"><name>Fedora EPEL 5</name><package arch="src" epoch="0" name="php-nusoap" release="1.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/SRPMS/php-nusoap-0.9.5-1.el5.src.rpm" version="0.9.5"></filename><package arch="noarch" epoch="0" name="php-nusoap" release="1.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/i386/php-nusoap-0.9.5-1.el5.noarch.rpm" version="0.9.5"><filename>php-nusoap-0.9.5-1.el5.noarch.rpm</filename></package></collection></pkglist></update><update from="updates@fedoraproject.org" status="stable" type="newpackage" version="1.4"><id>FEDORA-EPEL-2010-3327</id><title>mytop-1.7-4.b737f60.el5</title><release>Fedora EPEL 5</release><issued date="2010-09-06 18:04:01"/><reboot_suggested/><references><reference href="https://bugzilla.redhat.com/show_bug.cgi?id=426990" id="426990" title="Review Request: mytop - A top clone for MySQL" type="bugzilla"/> Initial EPEL branch</description><pkglist><collection short="EL-5"><name>Fedora EPEL 5</name><package arch="src" epoch="0" name="mytop" release="4.b737f60.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/SRPMS/mytop-1.7-4.b737f60.el5.src.rpm" version="1.7"><filename>mytop-1.7-4.b737f60.el5.src.rpm</filename></package><package arch="noarch" epoch="0" name="mytop" release="4.b737f60.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/i386/mytop-1.7-4.b737f60.el5.noarch.rpm" version="1.7"><filename>mytop-1.7-4.b737f60.el5.noarch.rpm</filename></package></collection></pkglist></update><update from="updates@fedoraproject.org" status="stable" type="newpackage" version="1.4"><id>FEDORA-EPEL-2010-3326</id><title>php-channel-htmlpurifier-1.0-2.el5</title><release>Fedora EPEL 5</release><issued date="2010-09-06 18:03:58"/><reboot_suggested/><references><reference href="https://bugzilla.redhat.com/show_bug.cgi?id=576032" id="576032" title="Review Request: php-channel-htmlpurifier - Adds htmlpurifier project channel to PEAR" type="bugzilla"/> Fedora EPEL 5</description><pkglist><collection short="EL-5"><name>Fedora EPEL 5</name><package arch="src" epoch="0" name="php-channel-htmlpurifier" release="2.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/SRPMS/php-channel-htmlpurifier-1.0-2.el5.src.rpm" version="1.0"><filename>php-channel-htmlpurifier-1.0-2.el5.src.rpm</filename></package><package arch="noarch" epoch="0" name="php-channel-htmlpurifier" release="2.el5" src="http://download.fedoraproject.org/pub/fedora/linux/updates/5/i386/php-channel-htmlpurifier-1.0-2.el5.noarch.rpm" version="1.0"><filename>php-channel-htmlpurifier-1.0-2.el5.noarch.rpm</filename></package></collection></pkglist></update>
UNU.RAN is an ANSI C library licensed under GPL. It contains universal (also called automatic or black-box) algorithms that can generate random numbers from large classes of continuous or discrete distributions, and also from practically all standard distributions.
This update corrects the license information; perl-Nmap-Parser is now covered by the MIT license. It also corrects a minor packaging problem with incorrect ownership of directories.

Update to the final release 0.9, containing a number of bug fixes and enhancements.

This update introduces lbzip2 utilities -- a collection of tools to work with compressed files in bz2 format.
1.2991 derbyclient 10.14.2.0

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The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.
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The snowball stemmers in
    analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
    analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
    http://snowball.tartarus.org/

The KStem stemmer in
    analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
    analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
    analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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    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. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from mecab-ipadic-2.7.0-20070801 which can be obtained from http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz 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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John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University

Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey
> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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@c End:
From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwrui/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
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That's great!

Go ahead and circulate it; in fact, we should probably grab it and
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  jar/org/drools/lang/DroolsTree.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/DroolsEditorType.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/DroolsTreeAdaptor.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/GlobalDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/dsl/DefaultDSLMapping.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/rule/builder/dialect/mvel/MVELEvalBuilder.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/rule/builder/dialect/java/JavaAccumulateBuilder.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
jar/org/drools/lang/api/impl/BehaviorDescrBuilderImpl.java
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jar/org/drools/lang/DroolsParaphraseTypes.java
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  jar/org/drools/compiler/DroolsErrorWrapper.java

* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/compiler/DuplicateRule.java

* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/compiler/DuplicateFunction.java

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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/EnumLiteralDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/impl/EnumDeclarationDescrBuilderImpl.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/impl/EnumLiteralDescrBuilderImpl.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/AbstractClassTypeDeclarationBuilder.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/impl/WindowDeclarationDescrBuilderImpl.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/commons/jci/compilers/JavaCompiler.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/QualifiedIdentifierRestrictionDescr.java
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jar/org/drools/lang/descr/ExprConstraintDescr.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/ParseException.java
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  * /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/rule/builder/dialect/mvel/MVELAnalysisResult.java
  * /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/rule/builder/dialect/java/JavaAnalysisResult.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/ParserError.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/xml/rules/ExpressionHandler.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/xml/rules/FunctionHandler.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/DroolsParserException.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/xml/rules/AccumulateHelperHandler.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/xml/rules/AndHandler.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/SerializableDroolsError.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/xml/rules/ExistsDescr.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/xml/rules/PackageHandler.java
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jar/org/drools/compiler/PackageBuilder.java

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convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
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parts of the General Public License. Of course, the commands you use may
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mouse-clicks or menu items--whatever suits your program.

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necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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    Version 2.1, February 1999

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the version number 2.1.]

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.2996 python-iniparse 0.4 9.el7

1.2996.1 Available under license:

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iniparse/compat.py and tests/test_compat.py contain code derived from
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respectively. Other code may contain small snippets from those two files
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---------------------------------------------------------------------------

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javae_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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 */

/**
 * [#] implementation for Oracle databases. Uses proprietary API
 * to create [#] and [#] instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * While most databases are able to work with [#],
 * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
 * BLOB/CLOB instances created via its own proprietary BLOB/CLOB API,
 * and additionally doesn't accept large streams for PreparedStatement's
 * corresponding setter methods. Therefore, you need to use a strategy like
 * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
 * (which still supports access to Oracle 9i databases).
 *
 * ![NOTE: As of Oracle 10.2, [#] should work equally
 * well out of the box. On Oracle 11g, JDBC 4.0 based options such as
 * [#] and [#] are available as well, rendering this proprietary OracleLobHandler obsolete.]
 * Also, consider upgrading to a new driver even when accessing an older database.
 * See the [#] interface javadoc for a summary of recommendations.
 *
 * Needs to work on a native JDBC Connection, to be able to cast it to
 * [#]. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate [@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
* 
* <p>Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
* 
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [@link DefaultLobHandler#setCreateTemporaryLob] is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

Found in path(s):
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
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jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/AbstractJdbcTemplate.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
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 */
/**
 * Strategy interface for translating between {@link SQLException SQLExceptions}
 * and Spring’s data access strategy-agnostic {@link DataAccessException} hierarchy.
 * Implementations can be generic (for example, using
 * {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
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/**
 /**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */

/**
 /**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never { @code null })
 */

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* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
jar/org/springframework/jdbc/core/ParameterMapper.java

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  jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
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  jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
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  jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/core/simple/ParameterizedRowMapper.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/CustomSQLExceptionTranslator.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/generated/GeneratedKeyHolder.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/core/BatchUpdateUtils.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java

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* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/support/lob/PassThroughClob.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
jar/org/springframework/jdbc/core/metadata/DerbyMetaDataProvider.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java

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*/
/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved Pre paredStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

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* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/ConnectionHandle.java
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* /
/**
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
* {@link OracleLobHandler}; most other databases should be able to work
* with the provided {@link DefaultLobHandler}.
*
* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
* 
* <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
* which by default delegates to JDBC's direct accessor methods, avoiding the
* {@code java.sql.Blob} and {@code java.sql.Clob} API completely.
* {@link DefaultLobHandler} can also be configured to access LOBs using
* {@code PreparedStatement.setBlob/setClob} (e.g. for PostgreSQL), through
* setting the {@link DefaultLobHandler#setWrapAsLob "wrapAsLob"} property.
* 
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* {@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g+ JDBC driver will work with {@link DefaultLobHandler}
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use {@link OracleLobHandler} at all anymore.
* 
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
* 
* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
* <ul>
* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use {@link DefaultLobHandler},
* potentially with {@code streamAsLob=true} if your database driver requires that
* hint when populating a LOB field. Fall back to {@code createTemporaryLob=true}
* if you happen to run into LOB size limitations with your (Oracle) database setup.
* <li><b>Oracle 10g driver:</b> Use {@link DefaultLobHandler} with standard setup.
* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
* DefaultLobHandler should work with standard setup out of the box. Alternatively,
* consider using the proprietary {@link OracleLobHandler} (see below).
* <li><b>Oracle 9i driver:</b> Use {@link OracleLobHandler} with a connection-pool-specific
* [ @link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor].
* <li><b>PostgreSQL:</b> Configure [ @link DefaultLobHandler] with [ @code wrapAsLob=true],
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain [ @link DefaultLobHandler].
* </ul>

* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).
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  jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1152475942_1618244579.65/0/spring-jdbc-3-2-3-release-sources-2-
  jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
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1.3002 jetty-util-ajax 9.4.11.v20180605

1.3003 http2-common 9.4.11.v20180605

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1.3019 jetty-http 9.4.11.v20180605

1.3020 mina 2.0.16

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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:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
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@end ifinfo

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However, linking a `work that uses the Library` with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a `work that uses the library`. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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@enumerate
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
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To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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USA.
@end smallexample
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:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
@end example

That's all there is to it!

This file is under construction.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you’ve contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren’t intentionally leaving anyone out.

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1.3030 spring.dao 1.2.7

1.3030.1 Available under license:

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/support/TransactionTemplate.java
* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
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* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/PlatformTransactionManager.java
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* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
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* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/transaction/InvocationInvocationException.java
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* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/transaction/TransactionStatus.java
* /opt/cola/permits/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/transaction/IllegalStateException.java
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jar/org/springframework/transaction/jta/JotmFactoryBean.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/interceptor/AttributesTransactionAttributeSource.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/dao/CleanupFailureDataAccessException.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/TransactionException.java
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* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/support/TransactionCompletionException.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/ConcurrentFailureException.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
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* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /opt/cola/permissions/1152477743_1618244937.55/0/spring-dao-1-2-7-sources-1-jar/org/springframework/transaction/dao/OptimisticLockingFailureException.java

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1.3033 coreutils 8.22 24.el7

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E)\
  ((E)->fts_info == FTS_D\
   || (E)->fts_info == FTS_DC\
   || (E)->fts_info == FTS_DP\
   || (E)->fts_info == FTS_DNR)

enum RCH_status
{
  /* we called fchown and close, and both succeeded */
  RC_ok = 2,

  /* required_uid and/or required_gid are specified, but don't match */
  RC_excluded,

  /* SAME_INODE check failed */
  RC_inode_changed,

  /* open/fchown isn't needed, isn't safe, or doesn't work due to 
   permissions problems; fall back on chown */
  RC_do_ordinary_chown,

  /* open, fstat, fchown, or close failed */
  RC_error
}
extern void
cchopt_init (struct Chown_option *chopt)
{
    chopt->verbosity = V_off;
    chopt->root_dev_ino = NULL;
    chopt->affect_symlink_referent = true;
    chopt->recurse = false;
    chopt->force_silent = false;
    chopt->user_name = NULL;
    chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
    /* Deliberately do not free chopt->user_name or ->group_name.
        They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
    and return it. If there's no corresponding group name, use the decimal
    representation of the ID. */
extern char *
gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
        : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
        : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
    and return it. If there's no corresponding user name, use the decimal
    representation of the ID. */
extern char *
uid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwuid (uid);
    return xstrdup (pwd ? pwd->pw_name
        : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
        : umaxtostr (uid, buf));
}
/* Allocate a string representing USER and GROUP. */
static char *
user_group_str (char const *user, char const *group)
{
char *spec = NULL;
if (user)
{
if (group)
{
spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
spec = xstrdup (user);
}
}
else if (group)
{
spec = xstrdup (group);
}
return spec;
}
/* Tell the user how/if the user and group of FILE have been changed.
If USER is NULL, give the group-oriented messages.
CHANGED describes what (if anything) has happened. */
static void
describe_change (const char *file, enum Change_status changed,
char const *old_user, char const *old_group,
char const *user, char const *group)
{
const char *fmt;
char *old_spec;
char *spec;
if (changed == CH_NOT_APPLIED)
{
printf (_("neither symbolic link %s nor referent has been changed\n"),
quote (file));
return;
}

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spec = user_group_str (user, group);
old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

switch (changed)
{
  case CH_SUCCEEDED:
    fmt = (user ? _("changed ownership of %s from %s to %s\n")
        : group ? _("changed group of %s from %s to %s\n")
        : _("no change to ownership of %s\n"));
    break;
  case CH_FAILED:
    if (old_spec)
    {
      fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
          : group ? _("failed to change group of %s from %s to %s\n")
          : _("failed to change ownership of %s\n"));
    } else 
    {
      fmt = (user ? _("failed to change ownership of %s to %s\n")
          : group ? _("failed to change group of %s to %s\n")
          : _("failed to change ownership of %s\n"));
      free (old_spec);
      old_spec = spec;
      spec = NULL;
    }
    break;
  case CH_NO_CHANGE_REQUESTED:
    fmt = (user ? _("ownership of %s retained as %s\n")
        : group ? _("group of %s retained as %s\n")
        : _("ownership of %s retained\n"));
    break;
  default:
    abort();
}

printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
   only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
   of FILE. ORIG_ST must be the result of 'stat'ing FILE.

   The 'safely' part above means that we can't simply use chown(2),
   since FILE might be replaced with some other file between the time

of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call fstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
struct stat const *orig_st,
uid_t uid, gid_t gid,
uid_t required_uid, gid_t required_gid)
{
enum RCH_status status = RC_ok;
struct stat st;
int open_flags = O_NONBLOCK | O_NOCTTY;
int fd;

if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
return RC_do_ordinary_chown;

if (! S_ISREG (orig_st->st_mode))
{
if (S_ISDIR (orig_st->st_mode))
open_flags |= O_DIRECTORY;
else
return RC_do_ordinary_chown;
}

fd = openat (cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd
  || (errno == EACCES && S_ISREG (orig_st->st_mode)
    && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags)))
return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

if (fstat (fd, &st) != 0)
status = RC_error;
else if (! SAME_INODE (*orig_st, st))
status = RC_inode_changed;
else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
  && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
{
  if (fchown (fd, uid, gid) == 0)
status = (close (fd) == 0
    ? RC_ok : RC_error);
return status;
}
else
{
    status = RC_error;
}
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;
}

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
  char const *file_full_name = ent->fts_path;
  char const *file = ent->fts_accpath;
  struct stat const *file_stats;
  struct stat stat_buf;
  bool ok = true;
  bool do_chown;
  bool symlink_changed = true;

  switch (ent->fts_info)
  {
    case FTS_D:
      if (chopt->recurse)
      {
        if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
        {
          /* This happens e.g., with "chown -R --preserve-root 0 /
             and with "chown -RH --preserve-root 0 symlink-to-root". */
          ROOT_DEV_INO_WARN (file_full_name);
          /* Tell fts not to traverse into this hierarchy. */
        }
fts_set (fts, ent, FTS_SKIP);
    /* Ensure that we do not process "/" on the second visit. */
    ignore_value (fts_read (fts));
    return false;
}  
    return true;
}  
break;

case FTS_DP:
    if (! chopt->recurse)
        return true;
    break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
       indicator is determined at the time of the initial fts_open call.
       With programs like chmod, chown, and chgrp, that modify
       permissions, it is possible that the file in question is
       accessible when control reaches this point. So, if this is
       the first time we've seen the FTS_NS for this file, tell
       fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
    {
        ent->fts_number = 1;
        fts_set (fts, ent, FTS_AGAIN);
        return true;
    }
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot access %s"),
               quote (file_full_name));
    ok = false;
    break;

case FTS_ERR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, "%s", quote (file_full_name));
    ok = false;
    break;

case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory %s"),
               quote (file_full_name));
    ok = false;
    break;

case FTS_DC: /* directory that causes cycles */
if (cycle_warning_required (fts, ent))
{
    emit_cycle_warning (file_full_name);
    return false;
}
break;

default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
       && chopt->verbosity == V_off
       && ! chopt->root_dev_ino
       && ! chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_statp;
}
else
{
    file_stats = ent->fts_statp;

    /* If this is a symlink and we're dereferencing them,
     * stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
    {
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
        {
            if (! chopt->force_silent)
                error (0, errno, __("cannot dereference %s"),
                       quote (file_full_name));
            ok = false;
        }

        file_stats = &stat_buf;
    }

    do_chown = (ok
        && (required_uid == (uid_t) -1
            || required_uid == file_stats->st_uid)
        && (required_gid == (gid_t) -1
            || required_gid == file_stats->st_gid));
/* This happens when chown -LR --preserve-root encounters a symlink-to-/.

if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires
           this behavior for top-level symbolic links with -h, and
           implies that it's required for all symbolic links. */
        if (!ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the
           -h --no-dereference option. If fts's stat call determined
           that the uid/gid of FILE matched the --from=O:G-selected
           owner and group IDs, blindly using chown(2) here could lead
           chown(1) or chgrp(1) mistakenly to dereference a *symlink*
           to an arbitrary file that an attacker had moved into the
           place of FILE during the window between the stat and
           chown(2) calls. If FILE is a regular file or a directory
           that can be opened, this race condition can be avoided safely. */

        enum RCH_status err
            = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                               required_uid, required_gid);

        switch (err)
        {
            case RC_ok:
                break;

            case RC_do_ordinary_chown:
                ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
break;

case RC_error:
    ok = false;
break;

case RC_inode_changed:
    /* FIXME: give a diagnostic in this case? */
case RC_excluded:
    do_chown = false;
    ok = false;
break;

default:
    abort ();
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && !chopt->force_silent)
error (0, errno, (uid != (uid_t) -1
    ? _("changing ownership of %s")
    : _("changing group of %s")),
    quote (file_full_name));

if (chopt->verbosity != V_off)
{
    bool changed =
    ((do_chown && ok && symlink_changed)
    && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
        && (gid == (gid_t) -1 || gid == file_stats->st_gid)));

    if (changed || chopt->verbosity == V_high)
    {
        enum Change_status ch_status =
        !ok ? CH_FAILED
        : !symlink_changed ? CH_NOT_APPLIED
        : !changed ? CH_NO_CHANGE_REQUESTED
        : CH_SUCCEEDED);
        char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
        char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
describe_change (file_full_name, ch_status, 
    old_usr, old_grp, 
    chopt->user_name, chopt->group_name); 
  free (old_usr); 
  free (old_grp); 
} 
} 

if (! chopt->recurse) 
  fts_set (fts, ent, FTS_SKIP); 

return ok;
} 

/* Change the owner and/or group of the specified FILES. 
BIT_FLAGS specifies how to treat each symlink-to-directory 
that is encountered during a recursive traversal. 
CHOPT specifies additional options. 
If UID is not -1, then change the owner id of each file to UID. 
If GID is not -1, then change the group id of each file to GID. 
If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only 
files with user ID and group ID that match the non-(-1) value(s). 
Return true if successful. */ 
extern bool 
chown_files (char **files, int bit_flags, 
    uid_t uid, gid_t gid, 
    uid_t required_uid, gid_t required_gid, 
    struct Chown_option const *chopt) 
{ 
  bool ok = true; 

  /* Use lstat and stat only if they're needed. */ 
  int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1 
    || chopt->affect_symlink_referent 
    || chopt->verbosity != V_off) 
    ? 0 : FTS_NOSTAT); 

  FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL); 

  while (1) 
  { 
    FTSENT *ent; 

    ent = fts_read (fts); 
    if (ent == NULL) 
    { 
      if (errno != 0) 

...
{  /* FIXME: try to give a better message */  if (! chopt->force_silent)    error (0, errno, _("fts_read failed"));  ok = false;  }
break;
}

ok &= change_file_owner (fts, ent, uid, gid,
                           required_uid, required_gid, chopt);
}

if (fts_close (fts) != 0)  
{
  error (0, errno, _("fts_close failed"));
  ok = false;
}

return ok;
}

From RPM File Metadata: GPLv3+

1.3034 pinentry 0.8.1-17.el7

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NAME
Exporter - Implements default import method for modules

SYNOPSIS
In module YourModule.pm:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request

In other files which wish to use "YourModule":

use YourModule qw(frobnicate);    # import listed symbols
frobnicate ($left, $right)        # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use
in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own "import" method because
Exporter provides a highly flexible interface, with an implementation
optimised for the common case.
Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export
The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

Selecting What To Export
Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

    my $subref = sub { ... };  
    $subref->(@args);        # Call it as a function
    $obj->$subref(@args);    # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.
Other module design guidelines can be found in perlmod.

How to Import
In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features
Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- name  This name only
- :DEFAULT  All names in @EXPORT
- :tag  All names in $EXPORT_TAGS{tag} anonymous list
- /pattern/  All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., Module.pm defines:

    @EXPORT      = qw(A1 A2 A3 A4 A5);
    @EXPORT_OK   = qw(B1 B2 B3 B4 B5);
    %EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
Note that you cannot use tags in @EXPORT or @EXPORT_OK. Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```
use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX  qw(erno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

Exporting without using Exporter's import method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @__). The $package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;  # not a very useful import method
}
```

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called.
Instead, say the following:

``` perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter

By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

``` perl
package YourModule;
use Exporter qw( import );
```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```
# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
my %seen;
push @{$EXPORT_TAGS{all}},
grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
CGI.pm creates an ":all" tag which contains some (but not really all) of
its categories. That could be done with one small change:
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
my %seen;
push @{$EXPORT_TAGS{all}},
grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
foreach qw/html2 html3 netscape form cgi internal/;
}
Note that the tag names in %EXPORT_TAGS don't have the leading ':'.
"AUTOLOAD"ed Constants
Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid
having to compile and waste memory on rarely used values (see perlsub
for details on constant subroutines). Calls to such constant subroutines
are not optimized away at compile time because they can't be checked at
compile time for constancy.
Even if a prototype is available at compile time, the body of the
subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to
examine both the "()" prototype and the body of a subroutine at compile
time to detect that it can safely replace calls to that subroutine with
the constant value.
A workaround for this is to call the constants once in a "BEGIN" block:
package My ;
use Socket ;
foo( SO_LINGER ); ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER ); ## SO_LINGER optimized away at compile time.

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This forces the "AUTOLOAD" for "SO_LINGER" to take place before SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an "AUTOLOAD" for any constants explicitly imported by other packages or which are usually used when your package is "use"d.

Good Practices
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas, the "our" keyword is needed to declare the package variables @EXPORT_OK, @EXPORT, @ISA, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must write instead a "use vars" statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require Exporter" and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be rewritten as:

package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room
for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

    use base qw( Exporter );
    # or
    use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

    use Exporter::Easy (    
        OK => [ qw(munge frobnicate) ],
    );
    # @ISA setup is automatic
    # all assignments happen at compile time

What not to Export

You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

    @EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.
To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Perl6::Export / Perl6::Export::Attrs

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=head1 NAME
Exporter - Implements default import method for modules

=head1 SYNOPSIS
In module F<YourModule.pm>:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);  # import listed symbols
frobnicate ($left, $right)      # calls YourModule::frobnicate
Take a look at L</Good Practices> for some variants you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays C:@EXPORT> and C:@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C:@EXPORT_OK> in preference to C:@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.
(It is actually possible to get private functions by saying:

```perl
my $subref = sub { ... }
$subref->(@args);       # Call it as a function
$obj->$subref(@args);   # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then `C<@EXPORT_OK>` anything but use `C<@EXPORT>` with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's `C<@EXPORT>` into the namespace of the `C<use>` statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your `C<@EXPORT>` or `C<@EXPORT_OK>`, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists
If any of the entries in an import list begins with !, : or / then
the list is treated as a series of specifications which either add to
or delete from the list of names to import. They are processed left to
right. Specifications are in the form:

- [!]name         This name only
- [!] :DEFAULT    All names in @EXPORT
- [!] :tag         All names in $EXPORT_TAGS{tag} anonymous list
- [!] /pattern/    All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the
list of names to import. If the first specification is a deletion it
is treated as though preceded by :DEFAULT. If you just want to import
extra names in addition to the default set you will still need to
include :DEFAULT explicitly.

e.g., F<Module.pm> defines:

```perl
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored
with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 } > to see how the
specifications are being processed and what is actually being imported
into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations
where you can't directly call Exporter's
import method. The export_to_level
method looks like:

MyPackage->export_to_level(
$where_to_export, $package, @what_to_export
);

where C<$where_to_export> is an integer telling how far up the calling stack
to export your symbols, and C<@what_to_export> is an array telling what
symbols *to* export (usually this is C<@_> ). The C<$package> argument is
currently unused.

For example, suppose that you have a module, A, which already has an
import function:

package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;  # not a very useful import method
}

and you want to Export symbol C<$A::b> back to the module that called
package A. Since Exporter relies on the import method to work, via
inheritance, as it stands Exporter::import() will never get called.
Instead, say the following:

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't want. To avoid this you can do

    package YourModule;
    use Exporter qw( import );

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

    @failed_symbols = $module_name->export_fail(@failed_symbols);

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the
export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<$EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<$EXPORT_TAGS> must also appear in either C@$EXPORT> or C@$EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C@$EXPORT> or C@$EXPORT_OK>:

$EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');    # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar'); # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C@$EXPORT> or C@$EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C@$EXPORT> or C@$EXPORT_OK>. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<$EXPORT_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

$EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;

}  

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
        foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ':'.

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<>() prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

    package My ;

    use Socket ;

    foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
    BEGIN { SO_LINGER }
    foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C.SO_LINGER to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing an C<AUTOLOAD> for any constants explicitly imported by other packages or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings> pragmas, the C<our> keyword is needed to declare the package
variables $@ISA, $@EXPORT_OK, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must write instead a use vars statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

=head2 Playing Safe

There are some caveats with the use of runtime statements like require Exporter and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use BEGIN blocks. So the first part of the SYNOPSIS code could be rewritten as:

package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}

The BEGIN will assure that the loading of Exporter.pm and the assignments to $@ISA and $@EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading Exporter and inheriting, there are alternatives with the use of modules like base and parent.

use base qw( Exporter );
# or
use parent qw( Exporter );
Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);:
# @ISA setup is automatic
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L</Selecting What to Export>
to not export:

=over 4

=item *

method names (because you don't need to
and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users...
badly)

=item *

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do B<not>
export variable names. Just because C<Exporter> lets you
do that, it does not mean you should.

```perl
@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

- Exporter::Easy
- Exporter::Lite
- Exporter::Renaming
- Exporter::Tidy
- Sub::Exporter / Sub:: Installer
- Perl6:: Export / Perl6:: Export::Attrs

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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
    BB:
        %L34 = load i8, i8* %0
        %Cmp56 = icmp sgt i8 undef, %L34
        br label %CF246
    CF246:                                            ; preds = %CF246, %BB
        %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
        br i1 undef, label %CF246, label %CF248
    CF248:                                            ; preds = %CF248, %CF246
        store i8 %SI163, i8* %0
        br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s
;
; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
; legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %7
    ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: avg_v64i8_512:  
  ; CHECK:    # %bb.0:  
  ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
  ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0  
  ; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %1 = load <64 x i8>, <64 x i8>* %a  
  %2 = load <64 x i8>, <64 x i8>* %b  
  %3 = zext <64 x i8> %1 to <64 x i32>  
  %4 = zext <64 x i8> %2 to <64 x i32>  
  %5 = add nuw nsw <64 x i32> %3, %4  
  %6 = add nuw nsw <64 x i32> %5, %4  
  %7 = lshr <64 x i32> %6, %5, %4  
  %8 = trunc <64 x i32> %7 to <64 x i8>  
  store <64 x i8> %8, <64 x i8>* undef, align 4  
  ret void  
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: pmaddwd_32_256:  
  ; CHECK:    # %bb.0:  
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
  ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
  ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1  
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %A = load <32 x i16>, <32 x i16>* %APtr  
  %B = load <32 x i16>, <32 x i16>* %BPtr  
  %C = load <16 x i32>, <16 x i32>* %CPtr  
  retq  
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: avg_v64i8_512:  
  ; CHECK:    # %bb.0:  
  ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
  ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0  
  ; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %1 = load <64 x i8>, <64 x i8>* %a  
  %2 = load <64 x i8>, <64 x i8>* %b  
  %3 = zext <64 x i8> %1 to <64 x i32>  
  %4 = zext <64 x i8> %2 to <64 x i32>  
  %5 = add nuw nsw <64 x i32> %3, %4  
  %6 = add nuw nsw <64 x i32> %5, %4  
  %7 = lshr <64 x i32> %6, %5, %4  
  %8 = trunc <64 x i32> %7 to <64 x i8>  
  store <64 x i8> %8, <64 x i8>* undef, align 4  
  ret void  
}
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29, %i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29, %i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vphaddsw (%rsi), %ymm0, %ymm1
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: psubus_64i8_max_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
  %res = sub <64 x i8> %max, %y
  store <64 x i8> %res, <64 x i8>* %zptr
  ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: _Z9test_charPcS_i_256:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:  movl %edx, %eax
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  xorl %ecx, %ecx
  ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB8_1: # %vector.body
  ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
  ; CHECK-NEXT:  vpaddd %ymm1, %ymm3, %ymm1
  ; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm4
  ; CHECK-NEXT:  vpmaddwd %ymm3, %ymm4, %ymm3
  ; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
  ; CHECK-NEXT:  addq $32, %rcx
  ; CHECK-NEXT:  cmpq %rcx, %rax
Open Source Used In OnPrem2.1 2.2 29500
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi i8 [ %32 x i32] [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  # %bb.0: # %entry
  # CHECK-NEXT: movl %edx, %eax
  # CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  # CHECK-NEXT: xorl %ecx, %ecx
  # CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  # CHECK-NEXT: .p2align 4, 0x90
  # CHECK-NEXT: .LBB9_1: # %vector.body
  # =>This Inner Loop Header: Depth=1
  # CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
  # CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
  # CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
  # CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
  # CHECK-NEXT: addq $32, %rcx
  # CHECK-NEXT: cmpq %rcx, %rax
  # CHECK-NEXT: jne .LBB9_1
  # CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
  # CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm1
  # CHECK-NEXT: addq %32, %rcx
  # CHECK-NEXT: cmpq %rcx, %rax
  # CHECK-NEXT: jne .LBB9_1
  # CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
  # CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vphufd \{[.*#+]\} xmm1 = xmm0[2,3,0,1]
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vphufd \{[.*#+]\} xmm1 = xmm0[1,1,2,3]
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  # CHECK-NEXT: vmovd %zmm0, %eax
  # CHECK-NEXT: vzeroupper
  # CHECK-NEXT: retq
}

i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32undef, i32 undef, i32 unde...
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %0, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> %i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
  %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> %i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
  %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> %i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
  %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> %i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
  %13 = extractelement <32 x i32> %bin.rdx20, i32 0
def i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:   movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:   .p2align 4, 0x90
    ; CHECK-NEXT: .LBB10_1: # %vector.body
    ; CHECK-NEXT:       # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:       vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:       vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT:       vpsadbw b+1024(%rax), %xmm2
    ; CHECK-NEXT:       vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT:       addq $4, %rax
    ; CHECK-NEXT:       jne .LBB10_1
    ; CHECK-NEXT: .LBB10_2: # %middle.block
    ; CHECK-NEXT:       vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:       vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:       vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:       vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:       vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:       vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:       vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:       vmovd %xmm0, %eax
    ; CHECK-NEXT:       vzeroupper
    ; CHECK-NEXT:       retq
    entry:
    br label %vector.body

vector.body:

    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6  
%9 = select <16 x i1>  %7, <16 x i32>  %6, <16 x i32>  %8  
%10 = add nsw <16 x i32>  %9,  %vec.phi  
%index.next = add i64 %index, 4  
%11 = icmp eq i64 %index.next, 1024  
br i1 %11, label %middle.block, label %vector.body  

middle.block:  
%.lcssa = phi <16 x i32> [ %10, %vector.body ]  
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,  
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx = add <16 x i32> %rdx.shuf  
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32  
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32  
undef>  
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2  
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32  
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32  
undef, i32 undef>  
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3  
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32  
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32  
undef, i32 undef>  
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4  
%12 = extractelement <16 x i32> %bin.rdx4, i32 0  
ret i32 %12  

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {  
; CHECK-LABEL: sad_16i8_512:  
; CHECK:      # %bb:0: # %entry  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00  
; CHECK-NEXT: .p2align 4, 0x90  
; CHECK-NEXT: .LBB11_1: # %vector.body  
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1  
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1  
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0  
; CHECK-NEXT: addq $4, %rax  
; CHECK-NEXT: jne .LBB11_1  
; CHECK-NEXT: # %bb:2: # %middle.block  
; CHECK-NEXT: vextracti64x4 %1, %zmm0, %ymm1  
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT: vextracti128 %1, %ymm0, %xmm1  
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT: vpshufd {{[.*#+]} %xmm1 = xmm0[2,3,0,1]}  
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zero initializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>* %4, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <16 x i32> %2, %5
%8 = sub nsw <16 x i32> zero initializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:  # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:  # %bb.0:
; CHECK-NEXT: vpmovw2m %zmm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:  # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %xmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %zmm0, %zmm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    ret <16 x i1> %a
}
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#*+}} ymm4 = ymm2[8], ymm0[8], ymm2[9], ymm0[9], ymm2[10], ymm0[10], ymm2[11], ymm0[11], ymm2[12], ymm0[12], ymm2[13], ymm0[13], ymm2[14], ymm0[14], ymm2[15], ymm0[15], ymm2[16], ymm0[16], ymm2[17], ymm0[17], ymm2[18], ymm0[18], ymm2[19], ymm0[19], ymm2[20], ymm0[20], ymm2[21], ymm0[21], ymm2[22], ymm0[22], ymm2[23], ymm0[23], ymm2[24], ymm0[24], ymm2[25], ymm0[25], ymm2[26], ymm0[26], ymm2[27], ymm0[27], ymm2[28], ymm0[28], ymm2[29], ymm0[29], ymm2[30], ymm0[30], ymm2[31], ymm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#*+}} ymm5 =
ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]  
; CHECK-NEXT:  vpmean %ymm4, %ymm5, %ymm4  
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm5 =  
; CHECK-NEXT:  vpand %ymm5, %ymm4, %ymm4  
; CHECK-NEXT:  vunpcklbw {{.*#+}} ymm2 =  
ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]  
; CHECK-NEXT:  vunpcklbw {{.*#+}} ymm0 =  
ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]  
; CHECK-NEXT:  vpvec %ymm2, %ymm0, %ymm0  
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0  
; CHECK-NEXT:  vunpckhbw {{.*#+}} ymm2 =  
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]  
; CHECK-NEXT:  vunpckhbw {{.*#+}} ymm4 =  
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]  
; CHECK-NEXT:  vunpckhbw {{.*#+}} ymm3 =  
ymm0[0],ymm0[0],ymm0[1],ymm0[1],ymm0[2],ymm0[2],ymm0[3],ymm0[3],ymm0[4],ymm0[4],ymm0[5],ymm0[5],ymm0[6],ymm0[6],ymm0[7],ymm0[7],ymm0[16],ymm0[16],ymm0[17],ymm0[17],ymm0[18],ymm0[18],ymm0[19],ymm0[19],ymm0[20],ymm0[20],ymm0[21],ymm0[21],ymm0[22],ymm0[22],ymm0[23],ymm0[23]  
; CHECK-NEXT:  vunpckhbw {{.*#+}} ymm1 =  
ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]  
; CHECK-NEXT:  vpmean %ymm3, %ymm1, %ymm1  
; CHECK-NEXT:  vpackuswb %ymm2, %ymm1, %ymm1  
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq  
%d = load <64 x i8>, <64 x i8>* %a  
%e = load <64 x i8>, <64 x i8>* %b  
%f = mul <64 x i8> %d, %e  
store <64 x i8> %f, <64 x i8>* %c  
ret void  

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
    zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
    [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],
    zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1
    [45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
    mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpmullw %zmm2, %zmm1, %zmm1
; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 {{.*#+}} zmm3 =
    5,255,255,255,255]
; CHECK-NEXT: vpackuswb %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vpackuswb %zmm3, %zmm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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; NOTE: Assertions have been autogenerated by util/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {  
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; %A = sext <8 x i8> undef to <8 x i64>
    ; %B = sext <8 x i16> undef to <8 x i64>
    ; %C = sext <8 x i32> undef to <8 x i64>
    ; %D = sext <16 x i8> undef to <16 x i32>
    ; %E = sext <16 x i16> undef to <16 x i32>
    ; %F = sext <32 x i8> undef to <32 x i16>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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*/

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

sw.bb.i17: ; preds = %.exit

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%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:        ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:            ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end:         ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "ihambv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*)
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*)
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*)
  %3 = load volatile i16, i16* inttoptr (i32 805874727 to i16*)
  store i16 %4, i16* inttoptr(i32 805873688 to i16*)
  store i16 %3, i16* inttoptr(i32 805873719 to i16*)
  store i16 %2, i16* inttoptr(i32 805873720 to i16*)
  store i16 %1, i16* inttoptr(i32 805873727 to i16*)
  store i16* inttoptr(i32 805874800 to i16*), i16** @goo
  ret void
}

; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*)
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*)
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*)
  %3 = load volatile i16, i16* inttoptr (i32 805874727 to i16*)
  store i16 %4, i16* inttoptr(i32 805873688 to i16*)
  store i16 %3, i16* inttoptr(i32 805873719 to i16*)
  store i16 %2, i16* inttoptr(i32 805873720 to i16*)
  store i16 %1, i16* inttoptr(i32 805873727 to i16*)
  store i16* inttoptr(i32 805874800 to i16*), i16** @goo
  ret void
}
```
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}
```

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
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* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
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* hmac.c is derived from:

Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
               R. Canetti
               IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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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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*
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
  jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
  jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
  jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
  jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.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]
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@since 2.0

*/

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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
jar/org/springframework/web/servlet/annotation/ModelAndViewResolver.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
jar/org/springframework/web/servlet/view/tiles2/SpringBeanPreparerFactory.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
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jar/org/springframework/web/servlet/view/tiles3/TilesView.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
jar/org/springframework/web/servlet/tags/form/FormTag.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2.jar/org/springframework/web/servlet/handler/SimpleMappingExceptionResolver.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2.jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2.jar/org/springframework/web/servlet/view/json/MappingJacksonJsonView.java
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- /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2.jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
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- /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2.jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
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  jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewMethodReturnValueHandler.java
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* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
  jar/org/springframework/web/servlet/config/annotation/InterceptorRegistry.java
* /opt/cola/permits/1152478059_1618244931.15/0/spring-webmvc-3-2-3-release-sources-2-
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1.3091 zlib 1.2.11

1.3091.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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(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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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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mecab-ipadic-2.7.0-20070801
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  jar/org/quartz/impl/jdbcjobstore/oracle/OracleDelegate.java

1.3127 biosdevname 0.7.3-2.el7
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jar/org/springframework/oxm/support/MarshallingSource.java
*/

jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java
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* /opt/cola/permits/1177939708_1625570687.46/0/spring-plugin-metadata-1-2-0-release-sources-5-jar/org/springframework/plugin/metadata/PluginMetadata.java

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* /opt/cola/permits/1177939708_1625570687.46/0/spring-plugin-metadata-1-2-0-release-sources-5-jar/org/springframework/plugin/metadata/AbstractMetadataBasedPlugin.java

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1.3137 mdadm 4.1-6.el7

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/itextpdf/text/pdf/codec/TIFFConstants
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Extra information:

if you use the PdfCleanUp tool in the xtra package, you also need the following Apache libraries:

- Apache Commons: commons-imaging
- Apache Commons: commons-io

1.3161 spring-boot-starter-log4j2
1.5.6.RELEASE
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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, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
   analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
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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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===========================================================================
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    2=DC_CONFIDENTIAL if (c < 0 || c > DC_CONFIDENTIAL) throw new IllegalArgumentException("Constraint out of range"); *

    2=DC_CONFIDENTIAL + (_dataConstraint == DC_UNSET ? "DC_UNSET" : (_dataConstraint == DC_NONE ? "NONE" : (_dataConstraint == DC_INTEGRAL ? "INTEGRAL" : "CONFIDENTIAL")));

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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/transaction/support/DefaultTransactionStatus.java

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1.3186 tomcat-websocket 9.0.53

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  jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
* /opt/cola/permits/1135953391_1613641068.3/0/spring-web-4-3-10-release-sources-2-
  jar/org/springframework/http/converter/GenericHttpMessageConverter.java
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 *
 * The purpose of the CSVParser is to take a single string and parse it into
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 *
 * The CSVParser has grown organically based on user requests and does not truly match
 * any current requirements (though it can be configured to match or come close). There
 * is no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.
* 
* @author Glen Smith
* @author Rainer Pruy
* */

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* /opt/cola/permits/1142779499_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/bean/BeanToCsv.java
* /opt/cola/permits/1142779499_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/bean/CsvToBean.java
* /opt/cola/permits/1142779499_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/bean/MappingStrategy.java

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1.3193 jaxb-api 2.1

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jar/javax/servlet/jsp/jstl/sql/ModulusOperator.java
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* /opt/cola/permits/1011830311_1602589382.15/0/taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/tag/rt/fmt/BeanInfoManager.java
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1.3196 paramiko 2.7.1

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1.3197 libtdb 1.3.18 1.el7

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 * Unix SMB/CIFS implementation.

 trivial database library

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*/

1.3198 batik-ext 1.7
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*/
package org.apache.batik.ext.awt.image.codec.util;

import java.awt.Point;
import java.awt.Rectangle;
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;
import java.util.Vector;
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;
A simple class implemented the `<code>RenderedImage</code>` interface. Only the `<code>getTile()</code>` method needs to be implemented by subclasses. The instance variables must also be filled in properly.

* Normally in JAI `<code>PlanarImage</code>` is used for this purpose, but in the interest of modularity the use of `<code>PlanarImage</code>` has been avoided.

* @version $Id: SimpleRenderedImage.java 498747 2007-01-22 18:56:19Z dvholten $

```java
public abstract class SimpleRenderedImage implements RenderedImage {

    /** The X coordinate of the image's upper-left pixel. */
    protected int minX;

    /** The Y coordinate of the image's upper-left pixel. */
    protected int minY;

    /** The image's width in pixels. */
    protected int width;

    /** The image's height in pixels. */
    protected int height;

    /** The width of a tile. */
    protected int tileWidth;

    /** The height of a tile. */
    protected int tileHeight;

    /** The X coordinate of the upper-left pixel of tile (0, 0). */
    protected int tileGridXOffset = 0;

    /** The Y coordinate of the upper-left pixel of tile (0, 0). */
    protected int tileGridYOffset = 0;

    /** The image's SampleModel. */
    protected SampleModel sampleModel = null;

    /** The image's ColorModel. */
    protected ColorModel colorModel = null;

    /** The image's sources, stored in a Vector. */
    protected List sources = new ArrayList();
```
/** A Hashtable containing the image properties. */
protected Map properties = new HashMap();

public SimpleRenderedImage() {}

/** Returns the X coordinate of the leftmost column of the image. */
public int getMinX()
{
    return minX;
}

/** Returns the X coordinate of the column immediately to the
* right of the rightmost column of the image.  getMaxX() is
* implemented in terms of getMinX() and getWidth() and so does
* not need to be implemented by subclasses.
*/
public final int getMaxX()
{
    return getMinX() + getWidth();
}

/** Returns the X coordinate of the uppermost row of the image. */
public int getMinY()
{
    return minY;
}

/** Returns the Y coordinate of the row immediately below the
* bottom row of the image.  getMaxY() is implemented in terms of
* getMinY() and getHeight() and so does not need to be
* implemented by subclasses.
*/
public final int getMaxY()
{
    return getMinY() + getHeight();
}

/** Returns the width of the image. */
public int getWidth()
{
    return width;
}

/** Returns the height of the image. */
public int getHeight()
{
    return height;
}

/** Returns a Rectangle indicating the image bounds. */
public Rectangle getBounds()
{
    return new Rectangle(getMinX(), getMinY(),...
getWidth(), getHeight());
}

/** Returns the width of a tile. */
public int getTileWidth() {
    return tileWidth;
}

/** Returns the height of a tile. */
public int getTileHeight() {
    return tileHeight;
}

/**
 * Returns the X coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridXOffset() {
    return tileGridXOffset;
}

/**
 * Returns the Y coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridYOffset() {
    return tileGridYOffset;
}

/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
    return XToTileX(getMinX());
}

/**
 * Returns the horizontal index of the rightmost column of tiles.
 * getMaxTileX() is implemented in terms of getMaxX()
 * and so does not need to be implemented by subclasses.
 */
public int getMaxTileX() {
    return XToTileX(getMaxX() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the
 * horizontal direction. getNumXTiles() is implemented in terms
* of getMinTileX() and getMaxTileX() and so does not need to be
* implemented by subclasses.
*/
public int getNumXTiles() {
  return getMaxTileX() - getMinTileX() + 1;
}

/**
 * Returns the vertical index of the uppermost row of tiles. getMinTileY()
 * is implemented in terms of getMinY() and so does not need to be
 * implemented by subclasses.
 */
public int getMinTileY() {
  return YToTileY(getMinY());
}

/**
 * Returns the vertical index of the bottom row of tiles. getMaxTileY()
 * is implemented in terms of getMaxY() and so does not need to be
 * implemented by subclasses.
 */
public int getMaxTileY() {
  return YToTileY(getMaxY() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the vertical
direction. getNumYTiles() is implemented in terms of getMinTileY()
* and getMaxTileY() and so does not need to be
* implemented by subclasses.
 */
public int getNumYTiles() {
  return getMaxTileY() - getMinTileY() + 1;
}

/** Returns the SampleModel of the image. */
public SampleModel getSampleModel() {
  return sampleModel;
}

/** Returns the ColorModel of the image. */
public ColorModel getColorModel() {
  return colorModel;
}

/**
 * Gets a property from the property set of this image. If the
 * property name is not recognized, <code>null</code> will be returned.
public Object getProperty(String name) {
    name = name.toLowerCase();
    return properties.get(name);
}

/**
 * Returns a list of the properties recognized by this image. If 
 * no properties are available, an empty String[] will be returned.
 * @return an array of String s representing valid 
 * property names.
 */
public String[] getPropertyNames() {
    String[] names = new String[properties.size()];
    //        int index = 0;
    //        Enumeration e = properties.keys();
    //        while (e.hasMoreElements()) {
    //            String name = (String)e.nextElement();
    //            names[index++] = name;
    //        }
    properties.keySet().toArray( names );
    return names;
}

/**
 * Returns an array of String s recognized as names by 
 * this property source that begin with the supplied prefix. If 
 * no property names match, <code>null</code> will be returned. 
 * The comparison is done in a case-independent manner.
 * @return an array of String s giving the valid 
 * property names (can be null).
 */
public String[] getPropertyNames(String prefix) {
    String[] propertyNames = getPropertyNames();
    if (propertyNames == null) {
        return null;
    }
    //
prefix = prefix.toLowerCase();

List names = new ArrayList();
for (int i = 0; i < propertyNames.length; i++) {
    if (propertyNames[i].startsWith(prefix)) {
        names.add(propertyNames[i]);
    }
}

if (names.size() == 0) {
    return null;
}

// Copy the strings from the Vector over to a String array.
String[] prefixNames = new String[names.size()];

//        int count = 0;
//        for (Iterator it = names.iterator(); it.hasNext(); ) { // todo xx.toArray()
//            prefixNames[count++] = (String)it.next();
//        }
names.toArray( prefixNames );

return prefixNames;

// Utility methods.

/**
 * Converts a pixel's X coordinate into a horizontal tile index
 * relative to a given tile grid layout specified by its X offset
 * and tile width.
 */
public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    x -= tileGridXOffset;
    if (x < 0) {
        x += 1 - tileWidth; // Force round to -infinity
    }
    return x/tileWidth;
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index
 * relative to a given tile grid layout specified by its Y offset
 * and tile height.
 */
public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {

/**
 * Converts a pixel's X coordinate into a horizontal tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 * @param x the X coordinate of a pixel.
 * @return the X index of the tile containing the pixel.
 */
public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 * @param y the Y coordinate of a pixel.
 * @return the Y index of the tile containing the pixel.
 */
public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */
public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a vertical tile index into the Y coordinate of
 * its upper left pixel relative to a given tile grid layout
 * specified by its Y offset and tile height.
 */
public static int tileYToY(int ty, int tileGridYOffset, int tileHeight) {
    return ty*tileHeight + tileGridYOffset;
}
/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 * *
 * @param tx the horizontal index of a tile.
 * @return the X coordinate of the tile's upper left pixel.
 */
public int tileXToX(int tx) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a vertical tile index into the Y coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 * *
 * @param ty the vertical index of a tile.
 * @return the Y coordinate of the tile's upper left pixel.
 */
public int tileYToY(int ty) {
    return ty*tileHeight + tileGridYOffset;
}

public Vector getSources() {
    return null;
}

/**
 * Returns the entire image in a single Raster. For images with
 * multiple tiles this will require making a copy.
 * *
 * <p>The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,
 * the returned value may be a reference to the image's internal
 * data. The returned Raster should be considered non-writable;
 * any attempt to alter its pixel data (such as by casting it to
 * WritableRaster or obtaining and modifying its DataBuffer) may
 * result in undefined behavior. The copyData method should be
 * used if the returned Raster is to be modified.
 * *
 * @return a Raster containing a copy of this image's data.
 */
public Raster getData() {
    Rectangle rect = new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
return getData(rect);
}

/**
 * Returns an arbitrary rectangular region of the RenderedImage
 * in a Raster. The rectangle of interest will be clipped against
 * the image bounds.
 *
 * <p>The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,
 * the returned value may be a reference to the image's internal
 * data. The returned Raster should be considered non-writable;
 * any attempt to alter its pixel data (such as by casting it to
 * WritableRaster or obtaining and modifying its DataBuffer) may
 * result in undefined behavior. The copyData method should be
 * used if the returned Raster is to be modified.
 *
 * @param bounds the region of the RenderedImage to be returned.
 */
public Raster getData(Rectangle bounds) {
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);
    Raster tile;

    if ((startX == endX) && (startY == endY)) {
        tile = getTile(startX, startY);
        return tile.createChild(bounds.x, bounds.y,
                                bounds.width, bounds.height,
                                bounds.x, bounds.y, null);
    } else {
        // Create a WritableRaster of the desired size
        SampleModel sm =
            sampleModel.createCompatibleSampleModel(bounds.width,
                                                     bounds.height);

        // Translate it
        WritableRaster dest =
            Raster.createWritableRaster(sm, bounds.getLocation());

        for (int j = startY; j <= endY; j++) {
            for (int i = startX; i <= endX; i++) {
                tile = getTile(i, j);
                Rectangle intersectRect =
                    bounds.intersection(tile.getBounds());
                Raster liveRaster = tile.createChild(intersectRect.x,
public WritableRaster copyData(WritableRaster dest) {
    Rectangle bounds;
    Raster tile;
    
    if (dest == null) {
        bounds = getBounds();
        Point p = new Point(minX, minY);
        /* A SampleModel to hold the entire image. */
        SampleModel sm = sampleModel.createCompatibleSampleModel(
            width, height);
        dest = Raster.createWritableRaster(sm, p);
    } else {
        bounds = dest.getBounds();
    }
    
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    dest.setDataElements(0, 0, liveRaster);
    return dest;
}
int endY = YToTileY(bounds.y + bounds.height - 1);

for (int j = startY; j <= endY; j++) {
    for (int i = startX; i <= endX; i++) {
        tile = getTile(i, j);
        Rectangle intersectRect =
            bounds.intersection(tile.getBounds());
        Raster liveRaster = tile.createChild(intersectRect.x,
                                              intersectRect.y,
                                              intersectRect.width,
                                              intersectRect.height,
                                              intersectRect.x,
                                              intersectRect.y,
                                              null);

        /*
         * WritableRaster.setDataElements takes into account of
         * inRaster's minX and minY and add these to x and y. Since
         * liveRaster has the origin at the correct location, the
         * following call should not again give these coordinates in
         * places of x and y.
         */
        dest.setDataElements(0, 0, liveRaster);
    }
}
return dest;
}
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.OutputStream;

/**
 * A partial implementation of the ImageEncoder interface useful for
 * subclassing.
 *<p>This class is not a committed part of the JAI API. It may
 * be removed or changed in future releases of JAI.</p>
 */
public abstract class ImageEncoderImpl implements ImageEncoder {

    /** The OutputStream associated with this ImageEncoder. */
    protected OutputStream output;

    /** The ImageEncodeParam object associated with this ImageEncoder. */
    protected ImageEncodeParam param;

    /**
     * Constructs an ImageEncoderImpl with a given OutputStream
     * and ImageEncodeParam instance.
     */
    public ImageEncoderImpl(OutputStream output,
                            ImageEncodeParam param) {
        this.output = output;
        this.param = param;
    }

    /**
     * Returns the current parameters as an instance of the
     * ImageEncodeParam interface. Concrete implementations of this
     * interface will return corresponding concrete implementations of
     * the ImageEncodeParam interface. For example, a JPEGImageEncoder
     * will return an instance of JPEGEncodeParam.
     */
    public ImageEncodeParam getParam() {
        return param;
    }

    /**
     * Sets the current parameters to an instance of the
     * ImageEncodeParam interface. Concrete implementations
     */
}
of ImageEncoder may throw a RuntimeException if the
params argument is not an instance of the appropriate
subclass or subinterface. For example, a JPEGImageEncoder
will expect param to be an instance of JPEGEncodeParam.
*/
public void setParam(ImageEncodeParam param) {
    this.param = param;
}

/** Returns the OutputStream associated with this ImageEncoder. */
public OutputStream getOutputStream() {
    return output;
}

/**
 * Encodes a Raster with a given ColorModel and writes the output
to the OutputStream associated with this ImageEncoder.
*/
public void encode(Raster ras, ColorModel cm) throws IOException {
    RenderedImage im = new SingleTileRenderedImage(ras, cm);
    encode(im);
}

/**
 * Encodes a RenderedImage and writes the output to the
 * OutputStream associated with this ImageEncoder.
*/
public abstract void encode(RenderedImage im) throws IOException;

/*
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*/
package org.apache.batik.ext.awt.image.codec.util;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.InputStream;

/**
 * A partial implementation of the <code>ImageDecoder</code> interface
 * useful for subclassing.
 * 
 * @version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
 */
public abstract class ImageDecoderImpl implements ImageDecoder {

    /**
     * The <code>SeekableStream</code> associated with this
     * <code>ImageEncoder</code>
     *
     */
    protected SeekableStream input;

    /**
     * The <code>ImageDecodeParam</code> object associated with this
     * <code>ImageEncoder</code>.
     *
     */
    protected ImageDecodeParam param;

    /**
     * Constructs an <code>ImageDecoderImpl</code> with a given
     * <code>SeekableStream</code> and <code>ImageDecodeParam</code>
     * instance.
     *
     */
    public ImageDecoderImpl(SeekableStream input,
            ImageDecodeParam param) {
        this.input = input;
        this.param = param;
    }

    /**
     * Constructs an <code>ImageDecoderImpl</code> with a given
     * <code>InputStream</code> and <code>ImageDecodeParam</code>
     * instance. The <code>input</code> parameter will be used to
     * construct a <code>ForwardSeekableStream</code>; if the ability
     * to seek backwards is required, the caller should construct
     * an instance of <code>SeekableStream</code> and
     * make use of the other constructor.
     *
     */
    public ImageDecoderImpl(InputStream input,
            ImageDecodeParam param) {
        // Implementation
    }
}
this.input = new ForwardSeekableStream(input);
this.param = param;
}

/**
 * Returns the current parameters as an instance of the
 * <code>ImageDecodeParam</code> interface. Concrete
 * implementations of this interface will return corresponding
 * concrete implementations of the <code>ImageDecodeParam</code>
 * interface. For example, a <code>JPEGImageDecoder</code> will
 * return an instance of <code>JPEGDecodeParam</code>.
 */
public ImageDecodeParam getParam() {
    return param;
}

/**
 * Sets the current parameters to an instance of the
 * <code>ImageDecodeParam</code> interface. Concrete
 * implementations of <code>ImageDecoder</code> may throw a
 * <code>RuntimeException</code> if the <code>param</code> argument is not an instance of the appropriate subclass or
 * subinterface. For example, a <code>JPEGImageDecoder</code>
 * will expect <code>param</code> to be an instance of
 * <code>JPEGDecodeParam</code>.
 */
public void setParam(ImageDecodeParam param) {
    this.param = param;
}

/**
 * Returns the <code>SeekableStream</code> associated with
 * this <code>ImageDecoder</code>.
 */
public SeekableStream getInputStream() {
    return input;
}

/**
 * Returns the number of pages present in the current stream.
 * By default, the return value is 1. Subclasses that deal with
 * multi-page formats should override this method.
 */
public int getNumPages() throws IOException {
    return 1;
}
* Returns a <code>Raster</code> that contains the decoded
* contents of the <code>SeekableStream</code> associated
* with this <code>ImageDecoder</code>. Only
* the first page of a multi-page image is decoded.
*/
public Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

/**
  * Returns a <code>Raster</code> that contains the decoded
  * contents of the <code>SeekableStream</code> associated
  * with this <code>ImageDecoder</code>. The given page of a multi-page image is decoded. If
  * the page does not exist, an IOException will be thrown.
  * Page numbering begins at zero.
  *
  * @param page The page to be decoded.
  */
public Raster decodeAsRaster(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}

/**
  * Returns a <code>RenderedImage</code> that contains the decoded
  * contents of the <code>SeekableStream</code> associated
  * with this <code>ImageDecoder</code>. Only
  * the first page of a multi-page image is decoded.
  */
public abstract RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

/**
  * Returns a <code>RenderedImage</code> that contains the decoded
  * contents of the <code>SeekableStream</code> associated
  * with this <code>ImageDecoder</code>. The given page of a multi-page image is decoded. If
  * the page does not exist, an IOException will be thrown.
  * Page numbering begins at zero.
  *
  * @param page The page to be decoded.
  */
public abstract RenderedImage decodeAsRenderedImage(int page)
    throws IOException;
1.3199 ncurses 5.9

1.3199.1 Available under license:

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Found in path(s):
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/expression/el/DefaultExpressionFactoryUtils.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/convert/converters/FormattedStringToNumber.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/message/MessageContextErrors.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/mapping/MappingResultsCriteria.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/message/MessageCriteria.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/mapping/Mapping_results/RequiredError.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/collection/SharedMap.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/expression/support/NullParserContext.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/mapping/Mapping/MappingResultsCriteria.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/format/IntegerNumberFormatFactory.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/expression/support/AbstractGetValueExpression.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
  jar/org/springframework/binding/message/MessageCriteria.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-
1.3206 libvisual 0.4.0 16.el7

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1.3220 activemq-jms-pool 5.16.2
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That's all there is to it!  
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.
* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.3226 commons-csv 1.7
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1.3233 json-java 20090211

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1.3235 management-ehcache-common 2.10.6

1.3236 fuse 2.9.2 11.el7

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.3239 libxml 2.9.1-6.0.1.el7.5

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1.3240 jax-ws-api 2.2.9

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1.3242 python-setuptools 42.0.0

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1.3243 lapack 3.9.0-r2

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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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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 */

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
  and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
  loss of link, and correctly re-enable PHY when link is
  re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
    1) skb->destructor / skb->atm.recycle_buffer
    combined, allow nicstar_free_rx_skb to be called to
    recycle large data buffers
    2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.
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M. Welsh, 6 July 1996

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(If you think you should be in this list, but you are not, drop a
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1.3250 hazelcast-all 3.12.6
1.3250.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@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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1.3253 commons-lang3 2.4

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1.3254 postgresql 42.1.1

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1.3255 http2-server 9.4.11.v20180605

1.3256 docbook-dtds 1.0 60.el7

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$Id: calstblx.dtd,v 1.20 2004/03/31 10:44:12 nwalsh Exp$

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See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--
<!ENTITY % yesorno.attvals "NUMBER">
<!ENTITY % yes.attval "1"><!-- never actually used -->
<!ENTITY % no.attval "0"><!--
<!ENTITY % dbpool.redecl.module "IGNORE">
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook Information Pool V4.1//EN">
%dbpool;

<!ENTITY % local.list.class "">
<!ENTITY % list.class
"CalloutList|GlossList|ItemizedList|OrderedList|SegmentedList
|SimpleList|VariableList %local.list.class;">

<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"Caution|Important|Note|Tip|Warning %local.admon.class;">

<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"LiteralLayout|ProgramListing|ProgramListingCO|Screen
|ScreenCO|ScreenShot %local.linespecific.class;">

<!ENTITY % local.method.synop.class "">
<!ENTITY % method.synop.class
"ConstructorSynopsis
| DestructorSynopsis
| MethodSynopsis %local.method.synop.class;">

<!ENTITY % local.synop.class "">
<!ENTITY % synop.class
"Synopsis|CmdSynopsis|FuncSynopsis
| ClassSynopsis|FieldSynopsis
| %method.synop.class; %local.synop.class;">

<!ENTITY % local.para.class "">
<!ENTITY % para.class
"FormalPara|Para|SimPara %local.para.class;">

<!ENTITY % local.informal.class "">
<!ENTITY % informal.class
"Address|BlockQuote
| Graphic|GraphicCO|MediaObject|MediaObjectCO
| InformalEquation
| InformalExample
| InformalFigure
| InformalTable %local.informal.class;">  

<!ENTITY % local.formal.class "">
<!ENTITY % formal.class
"Equation|Example|Figure|Table %local.formal.class;">  

<!ENTITY % ebnf.block.hook "">
<!ENTITY % local.compound.class "">
<!ENTITY % compound.class
"MsgSet|Procedure|Sidebar|QandASet
| ebnf.block.hook;
| %local.compound.class;">  

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class
"Anchor|BridgeHead|Remark|Highlights
| %local.genobj.class;">  

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class
"Abstract|AuthorBlurb|Epigraph
| %local.descobj.class;">  

<!-- Character-level classes .............................................. -->

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.block.hook "">

<!ENTITY % local.compound.class "">
<!ENTITY % compound.class
"MsgSet|Procedure|Sidebar|QandASet
| ebnf.block.hook;
| %local.compound.class;">  

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class
"Anchor|BridgeHead|Remark|Highlights
| %local.genobj.class;">  

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class
"Abstract|AuthorBlurb|Epigraph
| %local.descobj.class;">  

<!-- Character-level classes .............................................. -->
<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.inline.hook "">

<!-- Action|Application
   |ClassName|MethodName|InterfaceName|ExceptionName
   |OOClass|OOInterface|OOException
   |Command|ComputerOutput
   |Database|Email|EnVar|ErrorCode|ErrorName|ErrorType|Filename
   |Function|GUIButton|GUIIcon|GUILabel|GUIMenu|GUIMenuItem
   |GUI_Submenu|Hardware|Interface|KeyCap
   |KeyCode|KeyCombo|KeySym|Literal|Constant|Markup|MediaLabel
   |MenuChoice|MouseButton|Option|Optional|Parameter
   |Prompt|Property|Replaceable|ReturnValue|SGMLTag|StructField
   |StructName|Symbol|SystemItem|Token|Type|UserInput|VarName
%ebnf.inline.hook; %local.tech.char.class;"
<!ENTITY % local.other.char.class "">

<!ENTITY % other.char.class
"Remark|Subscript|Superscript %local.other.char.class;">

<!ENTITY % local.inlineobj.char.class "">

<!ENTITY % inlineobj.char.class
"InlineGraphic|InlineMediaObject|InlineEquation %local.inlineobj.char.class;">

<!-- Redefinition placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<!-- Object-level mixtures ................................................ -->

<!-- Redeclaration placeholder ............................................ -->

<!-- Object-level mixtures ................................................ -->

<--

    list admn line synp para infm form cmpd gen desc
Component mixture     X    X    X    X    X    X    X    X    X    X
Sidebar mixture       X    X    X    X    X    X    X    a    X
Footnote mixture      X         X    X    X    X
Example mixture       X         X    X    X    X
Highlights mixture    X    X              X
Paragraph mixture     X         X    X         X
Admonition mixture    X         X    X    X    X    X    b    c
Figure mixture                    X    X    X
Table entry mixture     X    X    X    X    X    d
Glossary def mixture    X         X    X    X    X
Legal notice mixture    X         X    X    X    X    f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
-->
<!ENTITY % local.legalnotice.mix "">  
<!ENTITY % legalnotice.mix "">  
<!ENTITY % list.class;|%admon.class;  
|%linespecific.class;  
|%para.class;|BlockQuote  
|%ndxterm.class;  
%local.legalnotice.mix;">

<!ENTITY % local.textobject.mix "">  
<!ENTITY % textobject.mix "">  
<!ENTITY % local.mediaobject.mix "">  
<!ENTITY % mediaobject.mix "">  
<!-- Character-level mixtures ............................................. -->  
<!ENTITY % local.ubiq.mix "">  
<!ENTITY % ubiq.mix "">  
<!ENTITY % ndxterm.class;|BeginPage %local.ubiq.mix;">

<!ENTITY % ubiq.exclusion "-(%ubiq.mix)" >  
<!ENTITY % ubiq.inclusion "+(%ubiq.mix)" >  
<!ENTITY % footnote.exclusion "-(Footnote|%formal.class;)" >  
<!ENTITY % highlights.exclusion "-(%ubiq.mix;|%formal.class;)" >  
<!ENTITY % admon.exclusion "-(%admon.class;)" >  
<!ENTITY % formal.exclusion "-(%formal.class;)" >  
<!ENTITY % acronym.exclusion "-(Acronym)" >  
<!ENTITY % beginpage.exclusion "-(BeginPage)" >  
<!ENTITY % ndxterm.exclusion "-(%ndxterm.class;)" >  
<!ENTITY % blockquote.exclusion "-(Epigraph)" >  
<!ENTITY % remark.exclusion "-(Remark|%ubiq.mix;)" >  
<!ENTITY % glossterm.exclusion "-(GlossTerm)" >  
<!ENTITY % links.exclusion "-(Link|OLink|ULink|XRef)" >

<!--#PCD xref word link cpctr base dnfo othr inob (synop) -->
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<!ENTITY % forminlines.hook "">
<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "#PCDATA
  |%xref.char.class;%gen.char.class;
  |%link.char.class;%tech.char.class;
  |%base.char.class;%docinfo.char.class;
  |%other.char.class;%inlineobj.char.class;
  |%synop.class;
  |%ndxterm.class;
  %forminlines.hook;
%local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
  |%xref.char.class;%gen.char.class;
  |%link.char.class;%tech.char.class;
  |%base.char.class;%docinfo.char.class;
  |%other.char.class;%inlineobj.char.class;
  |%ndxterm.class;
%local.title.char.mix;">

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix "#PCDATA
  |%xref.char.class;%gen.char.class;
  |%link.char.class;%tech.char.class;
  |%base.char.class;%docinfo.char.class;
  |%other.char.class;|InlineGraphic|InlineMediaObject
  |%ndxterm.class;">

Open Source Used In OnPrem 2.1 2.2 31025
<!-- Effectivity attributes ............................................... -->

<!ENTITY % arch.attrib
--Arch: Computer or chip architecture to which element applies; no default--
"ArchCDATA#IMPLIED">

<!ENTITY % condition.attrib
--Condition: General-purpose effectivity attribute--
"ConditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib
--Conformance: Standards conformance characteristics--
"ConformanceNMTOKENS#IMPLIED">

<!ENTITY % os.attrib
--OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED">

<!ENTITY % revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED">

<!ENTITY % security.attrib
--Security: Security classification; no default--
"SecurityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib
--UserLevel: Level of user experience to which element applies; no default--
"UserLevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib
--Vendor: Computer vendor to which element applies; no default--
"VendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
%condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
%security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;"
<!-- Common attributes .................................................... -->

<!ENTITY % id.attrib
--Id: Unique identifier of element; no default--
"IdID#IMPLIED">

<!ENTITY % idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no
default--
"IdID#REQUIRED">

<!ENTITY % lang.attrib
--Lang: Indicator of language in which element is written, for
translation, character set management, etc.; no default--
"LangCDATA#IMPLIED">

<!ENTITY % remap.attrib
--Remap: Previous role of element before conversion; no default--
"RemapCDATA#IMPLIED">

<!ENTITY % role.attrib
--Role: New role of element in local environment; no default--
"RoleCDATA#IMPLIED">

<!ENTITY % xreflabel.attrib
--XRefLabel: Alternate labeling string for XRef text generation;
default is usually title or other appropriate label text already
contained in element--
"XRefLabelCDATA#IMPLIED">

<!ENTITY % revisionflag.attrib
--RevisionFlag: Revision status of element; default is that element
wasn't revised--
"RevisionFlag(Changed
|Added
|Deleted
|Off)#IMPLIED">

<!ENTITY % local.common.attrib "">
<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;"
>

<!-- Semi-common attributes and other attribute entities ................. -->

%!ENTITY % local.graphics.attrib ""
%!ENTITY % graphics.attrib
"

--EntityRef: Name of an external entity containing the content
of the graphic--
EntityRefENTITY#IMPLIED

--FileRef: Filename, qualified by a pathname if desired,
designating the file containing the content of the graphic--
FileRefCDATA#IMPLIED

--Format: Notation of the element content, if any--
Format(%notation.class;)
#IMPLIED

--SrcCredit: Information about the source of the Graphic--
SrcCreditCDATA#IMPLIED

--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means
application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED
--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED
%local.graphics.attrib;"
>

<!ENTITY % local.keyaction.attrib "">
<!ENTITY % keyaction.attrib " ">
--Action: Key combination type; default is unspecified if one
child element, Simul if there is more than one; if value is
Other, the OtherAction attribute must have a nonempty value--
Action(Click
|Double-Click
|Press
|Seq
|Simul
|Other)#IMPLIED

--OtherAction: User-defined key combination type--
OtherActionCDATA#IMPLIED
%local.keyaction.attrib;"
>

<!ENTITY % label.attrib " ">
--Label: Identifying number or string; default is usually the
appropriate number or string autogenerated by a formatter--
"LabelCDATA#IMPLIED">

<!ENTITY % linespecific.attrib " ">
--Format: whether element is assumed to contain significant white
space--
"FormatNOTATION
(linespecific)linespecific
   LineNumbering(Numbered|Unnumbered) #IMPLIED">

<!ENTITY % linkend.attrib " ">
--Linkend: link to related information; no default--
"LinkendIDREF#IMPLIED">

<!ENTITY % linkendreq.attrib " ">
--Linkend: required link to related information--
"LinkendIDREF#REQUIRED">

<!ENTITY % linkends.attrib " ">
--Linkends: link to one or more sets of related information; no
default--
"LinkendsIDREFS#IMPLIED">

<![IGNORE[
<!-- Declared for completeness, but never used -->
<!ENTITY % linkendsreq.attrib
--Linkends: required link to one or more sets of related information--
"LinkendsIDREFS#REQUIRED">
]]>

<!ENTITY % local.mark.attrib ">
<!ENTITY % mark.attrib
"MarkCDATA#IMPLIED
%local.mark.attrib;">

<!ENTITY % moreinfo.attrib
--MoreInfo: whether element's content has an associated RefEntry--
"MoreInfo(RefEntry(None)None)">

<!ENTITY % pagenum.attrib
--Pagenum: number of page on which element appears; no default--
"PagenumCDATA#IMPLIED">

<!ENTITY % local.status.attrib ">
<!ENTITY % status.attrib
--Status: Editorial or publication status of the element
it applies to, such as "in review" or "approved for distribution"--
"StatusCDATA#IMPLIED
%local.status.attrib;">

<!ENTITY % width.attrib
--Width: width of the longest line in the element to which it
pertains, in number of characters--
"WidthNUMBER#IMPLIED">

<!-- ................................................................. -->
<!-- Title elements ............................................... -->

<!ENTITY % title.module "INCLUDE">
<![ %title.module; [ 
<!ENTITY % local.title.attrib ">
<!ENTITY % title.role.attrib "%role.attrib;">

<!ENTITY % title.element "INCLUDE">
<![ %title.element; [ 
<!ELEMENT Title - O ((%title.char.mix;)+)>
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
  "Honorific|FirstName|Surname|Lineage|OtherName|Affiliation
  |AuthorBlurb|Contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
  "Abbrev|Abstract|Address|ArtPageNums|Author
  |AuthorGroup|AuthorInitials|BiblioMisc|BiblioSet
  |Collab|ConfGroup|ContractNum|ContractSponsor
  |Copyright|CorpAuthor|CorpName|Date|Edition
  |Editor|InvPartNumber|ISBN|ISSN|IssueNum|OrgName
  |OtherCredit|PageNums|PrintHistory|ProductName
  |ProductNumber|PubDate|Publisher|PublisherName
  |PubsNumber|ReleaseInfo|RevHistory|SeriesVolNums
  |Subtitle|Title|TitleAbbrev|VolumeNum|CiteTitle
  %person.ident.mix;
  %ndxterm.class;
  %local.bibliocomponent.mix;">

<!ENTITY % biblioentry.module "INCLUDE">
<!ELEMENT BiblioEntry - O ((ArticleInfo
  | (%bibliocomponent.mix;))+) %ubiq.exclusion;>
RelationCDATA#IMPLIED
%bibliomset.role.attrib;
%common.attrib;
%local.bibliomset.attrib;
>
<!--end of bibliomset.attlist-->]]>
<!--end of bibliomset.module-->]]>

<!-- ...................................................................... -->
<!-- Subject, Keyword, and ITermSet elements .............................. -->

<!-- ................................................................. -->
<!-- Subject, Keyword, and ITermSet elements .............................. -->

<ENTITY % subjectset.content.module "INCLUDE">
<!-- ................................................................. -->
<!-- Subject, Keyword, and ITermSet elements .............................. -->

<ENTITY % subjectset.content.module "INCLUDE">
<!-- ................................................................. -->
<!-- Subject, Keyword, and ITermSet elements .............................. -->
--
Scheme NAME #IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<!--end of subjectset.attlist-->]]>
<!--end of subjectset.module-->]]>

<!ENTITY % subject.module "INCLUDE">
<![ %subject.module; [ 
<!ENTITY % local.subject.attrib "">
<!ENTITY % subject.role.attrib "%role.attrib;">

<!ENTITY % subject.element "INCLUDE">
<![ %subject.element; [ 
<!ELEMENT Subject - - (SubjectTerm+)>
<!--end of subject.element-->]]>

<!ENTITY % subject.attlist "INCLUDE">
<![ %subject.attlist; [
<!ATTLIST Subject
--
Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified
--
WeightNUMBER #IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
>
<!--end of subject.attlist-->]]>
<!--end of subject.module-->]]>

<!ENTITY % subjectterm.module "INCLUDE">
<![ %subjectterm.module; [ 
<!ENTITY % local.subjectterm.attrib "">
<!ENTITY % subjectterm.role.attrib "%role.attrib;">

<!ENTITY % subjectterm.element "INCLUDE">
<![ %subjectterm.element; [ 
<!ELEMENT SubjectTerm - - (#PCDATA)>
<!--end of subjectterm.element-->]]>

<!ENTITY % subjectterm.attlist "INCLUDE">
<![ %subjectterm.attlist; [
<!ATTLIST SubjectTerm
%common.attrib;
<!--end of keyword.module-->]]>
<!--end of keywordset.content.module-->]]>

<!ENTITY % itermset.module "INCLUDE">
<![ %itermset.module; [ 
<!ENTITY % local.itermset.attrib """>
<!ENTITY % itermset.role.attrib "%role.attrib;">

<!ENTITY % itermset.element "INCLUDE">
<![ %itermset.element; [ 
<!ELEMENT ITermSet - - (IndexTerm+)>
<![ %itermset.attlist; [ 
<!ATTLIST ITermSet
%common.attrib;
%itermset.role.attrib;
%local.itermset.attrib;

<!--end of itermset.attlist-->]]>
<![ %itermset.module; [ 
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; [ 
<!ENTITY % local.msgset.attrib """>
<!ENTITY % msgset.role.attrib "%role.attrib;">

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; [ 
<!ELEMENT MsgSet - - ((%formalobject.title.content;)?, (MsgEntry+|SimpleMsgEntry+))>
<![ %msgset.attlist; [ 
<!ATTLIST MsgSet
%common.attrib;
%msgset.role.attrib;
%local.msgset.attrib;

<!--end of msgset.attlist-->]]>

<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; [ 
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; [ 
<!ENTITY % local.msgset.attrib """>
<!ENTITY % msgset.role.attrib "%role.attrib;">

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; [ 
<!ELEMENT MsgSet - - (((%formalobject.title.content;)?, (MsgEntry+|SimpleMsgEntry+))>
<![ %msgset.attlist; [ 
<!ATTLIST MsgSet
%common.attrib;
%msgset.role.attrib;
%local.msgset.attrib;

<!--end of msgset.attlist-->]]>
<!ENTITY % msgrel.module "INCLUDE">
<!ENTITY % local.msgrel.attrib "">
<!ENTITY % msgrel.role.attrib "%role.attrib;">

<!ENTITY % msgrel.element "INCLUDE">
<!ELEMENT MsgRel - - (Title?, MsgText)>
</!-end of msgrel.element-->]]>

<!ENTITY % msgrel.attlist "INCLUDE">
<!ATTLIST MsgRel
%common.attrib;
%msgrel.role.attrib;
%local.msgrel.attrib;
>
</!-end of msgrel.attlist-->]]>

<!ENTITY % msginfo.module "INCLUDE">
<!ENTITY % local.msginfo.attrib "">
<!ENTITY % msginfo.role.attrib "%role.attrib;">

<!ENTITY % msginfo.element "INCLUDE">
<!ELEMENT MsgInfo - - ((MsgLevel | MsgOrig | MsgAud)*)>
</!-end of msginfo.element-->]]>

<!ENTITY % msginfo.attlist "INCLUDE">
<!ATTLIST MsgInfo
%common.attrib;
%msginfo.role.attrib;
%local.msginfo.attrib;
>
</!- MsgText (defined in the Inlines section, below)-->

<!ENTITY % msginfo.module "INCLUDE">
<!ENTITY % local.msginfo.attrib "">
<!ENTITY % msginfo.role.attrib "%role.attrib;">

<!ENTITY % msginfo.element "INCLUDE">
<!ELEMENT MsgInfo - - ((MsgLevel | MsgOrig | MsgAud)*)>
</!-end of msginfo.element-->]]>

<!ENTITY % msginfo.attlist "INCLUDE">
<!ATTLIST MsgInfo
%common.attrib;
%msginfo.role.attrib;
%local.msginfo.attrib;
>
<!-- Sidebar .......................... -->
<!ENTITY % epigraph.attlist "INCLUDE">
<![ %epigraph.attlist; ]>
<!ATTLIST Epigraph
%common.attrib;
%epigraph.role.attrib;
%local.epigraph.attrib;
>
<!--end of epigraph.attlist-->]]>
<!-- Attribution (defined above)-->]]>

<!ENTITY % footnote.module "INCLUDE">
<![ %footnote.module; ]>
<!ENTITY % local.footnote.attrib "">
<!ENTITY % footnote.role.attrib "%role.attrib;">

<!ENTITY % footnote.element "INCLUDE">
<![ %footnote.element; ]>
<!ELEMENT Footnote - - ((%footnote.mix;)+) %footnote.exclusion;>
<!--end of footnote.element-->]]>

<!ENTITY % highlights.module "INCLUDE">
<![ %highlights.module; ]>
<!ENTITY % local.highlights.attrib "">
<!ENTITY % highlights.role.attrib "%role.attrib;">

<!ENTITY % highlights.element "INCLUDE">
<![ %highlights.element; ]>
<!ELEMENT Highlights - - ((%highlights.mix;)+) %highlights.exclusion;>
<!--end of highlights.element-->]]>

<!ENTITY % highlights.attlist "INCLUDE">
<![ %highlights.attlist; ]>
<!ELEMENT GlossList - - (GlossEntry+)>
<!-[--end of glosslist.element--]>]]>

<!ENTITY % glosslist.attlist "INCLUDE">
<![ %glosslist.attlist; [ 
<!ATTLIST GlossList %common.attrib; 
%glosslist.role.attrib; 
%local.glosslist.attrib; >
<![--end of glosslist.attlist--]>]]>
<![--end of glosslist.module--]>]]>

<!ENTITY % glossentry.content.module "INCLUDE">
<![ %glossentry.content.module; [ 
<!ENTITY % glossentry.module "INCLUDE">
<![ %glossentry.module; [ 
<!ENTITY % local.glossentry.attrib "" >
<!ENTITY % glossentry.role.attrib "%role.attrib;" >

<!ENTITY % glossentry.element "INCLUDE">
<![ %glossentry.element; [ 
<!ELEMENT GlossEntry - O (GlossTerm, Acronym?, Abbrev?, (%ndxterm.class;)*, 
RevHistory?, (GlossSee|GlossDef+))>
<![--end of glossentry.element--]>]]>

<!ENTITY % glossentry.attlist "INCLUDE">
<![ %glossentry.attlist; [ 
<!ATTLIST GlossEntry -- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -- SortAsCDATA#IMPLIED 
%common.attrib; 
%glossentry.role.attrib; 
%local.glossentry.attrib; >
<![--end of glossentry.attlist--]>]]>
<![--end of glossentry.module--]>]]>

<!-- GlossTerm (defined in the Inlines section, below)-->
<!ENTITY % glossdef.module "INCLUDE">
<![ %glossdef.module; [ 
<!ENTITY % local.glossdef.attrib "" >
<!ENTITY % glossdef.role.attrib "%role.attrib;" >

---

Open Source Used In OnPrem2.1 2.2 31056
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!-end of itemizedlist.module-->
]
<!-end of itemizedlist.module-->
]

<!ENTITY % orderedlist.module "INCLUDE">  
<![ %orderedlist.module; [  
<!ENTITY % local.orderedlist.attrib "">  
<!ENTITY % orderedlist.role.attrib "%role.attrib;">  

<!ENTITY % orderedlist.element "INCLUDE">  
<![ %orderedlist.element; [  
<!ELEMENT OrderedList - - ((%formalobject.title.content;)?, ListItem+)>  
<!-end of orderedlist.element-->
]

<!ENTITY % orderedlist.attlist "INCLUDE">  
<![ %orderedlist.attlist; [  
<!ATTLIST OrderedList  
   -- Numeration: Style of ListItem numbered; default is expected 
   to be Arabic  
   -- Numeration(Arabic  
   [Upperalpha  
   [Loweralpha  
   [Upperroman  
   [Lowerroman)#IMPLIED  
   -- InheritNum: Specifies for a nested list that the numbering 
   of ListItems should include the number of the item 
   within which they are nested (e.g., 1a and 1b within 1, 
   rather than a and b)--  
   InheritNum(Inherit  
   [Ignore)Ignore  
   -- Continuation: Where list numbering begins afresh (Restarts, 
   the default) or continues that of the immediately preceding 
   list (Continues)  
   -- Continuation(Continues  
   [Restarts)Restarts  
   -- Spacing: Whether the vertical space in the list should be 
   compressed  
   -- Spacing(Normal
<!ENTITY % segmentedlist.attlist "INCLUDE">
<![ %segmentedlist.attlist; [
<!ATTLIST SegmentedList
%common.attrib;
%segmentedlist.role.attrib;
%local.segmentedlist.attrib;
>]
<!--end of segmentedlist.attlist-->]]>
<!--end of segmentedlist.module-->

<!ENTITY % segtitle.module "INCLUDE">
<![ %segtitle.module; [
<!ENTITY % local.segtitle.attrib "">
<!ENTITY % segtitle.role.attrib "%role.attrib;">

<!ENTITY % segtitle.element "INCLUDE">
<![ %segtitle.element; [
<!ELEMENT SegTitle - O ((%title.char.mix;)+)>
<!--end of segtitle.element-->
]]>
<!--end of segtitle.module-->

<!ENTITY % seglistitem.module "INCLUDE">
<![ %seglistitem.module; [
<!ENTITY % local.seglistitem.attrib "">
<!ENTITY % seglistitem.role.attrib "%role.attrib;">

<!ENTITY % seglistitem.element "INCLUDE">
<![ %seglistitem.element; [
<!ELEMENT SegListItem - O (Seg, Seg+)>
<!--end of seglistitem.element-->
]]>
<!--end of seglistitem.module-->

<!ENTITY % seglistitem.attlist "INCLUDE">
<![ %seglistitem.attlist; [
<!ATTLIST SegList Item
%common.attrib;
%seglistitem.role.attrib;
%local.seglistitem.attrib;
>]
<!--end of seglistitem.attlist-->]]>
<!--end of seglistitem.module-->

---

Open Source Used In OnPrem2.1 2.2 31061
Columns: The number of columns the array should contain

Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc.)

Columns: NUMBER#IMPLIED

Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc.)
inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results.

--
Type(Inline
|Vert
|Horiz)Vert
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<![--end of simplelist.atlist-->]]>
<![--end of simplelist.module-->]]>

<![ENTITY % member.module "INCLUDE">
<![%member.module; [ ]]]>
<![ENTITY % local.member.attrib "">
<![ENTITY % member.role.attrib "%role.attrib;">

<![ENTITY % member.element "INCLUDE">
<![%member.element; [ ]]]>
<![ELEMENT Member - O (%para.char.mix;)+>
<![--end of member.element-->]]>

<![ENTITY % member.attlist "INCLUDE">
<![%member.attlist; [ ]]]>
<![ATTLIST Member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>
<![--end of member.attlist-->]]>
<![--end of member.module-->]]>
<![--end of simplelist.content.module-->]]>

<![-- VariableList ..................... -->

<![ENTITY % variablelist.content.module "INCLUDE">
<![%variablelist.content.module; [ ]]]>
<![ENTITY % variablelist.module "INCLUDE">
<![%variablelist.module; [ ]]]>
<![ENTITY % local.variablelist.attrib "">
<![ENTITY % variablelist.role.attrib "%role.attrib;">

<![ENTITY % variablelist.element "INCLUDE">
<![%variablelist.element; [ ]]]>
<![ELEMENT VariableList - - (%formalobject.title.content;?), VarListEntry+>
<!ENTITY % areaspec.attlist "INCLUDE">
<![ %areaspec.attlist; [ 
<!ATTLIST AreaSpec
  --
  Units: global unit of measure in which coordinates in
  this spec are expressed:
  - CALSPair "x1,y1 x2,y2": lower-left and upper-right
    coordinates in a rectangle describing repro area in which
    graphic is placed, where X and Y dimensions are each some
    number 0..10000 (taken from CALS graphic attributes)
  - LineColumn "line column": line number and column number
    at which to start callout text in "linespecific" content
  - LineRange "startline endline": whole lines from startline
    to endline in "linespecific" content
  - LineColumnPair "line1 col1 line2 col2": starting and ending
    points of area in "linespecific" content that starts at
    first position and ends at second position (including the
    beginnings of any intervening lines)
  - Other: directive to look at value of OtherUnits attribute
    to get implementation-specific keyword

  The default is implementation-specific; usually dependent on
  the parent element (GraphicCO gets CALSPair, ProgramListingCO
  and ScreenCO get LineColumn)
  --
  Units(CALSPair
  |LineColumn
  |LineRange
  |LineColumnPair
  |Other)#IMPLIED
  --
  OtherUnits: User-defined units
  --
  OtherUnitsNAME#IMPLIED
  %common.attrib;
  %areaspec.role.attrib;
  %local.areaspec.attrib;
  >
  <!--end of areaspec.attlist-->
]>
<!--end of areaspec.module-->
]>

<!ENTITY % area.module "INCLUDE"
<![ %area.module; ]>
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![ %area.element; [ 
<!ELEMENT Area - O EMPTY>
<![!--end of area.element-->]]>

<!ENTITY % area.attlist "INCLUDE">
<![ %area.attlist; [ 
<!ATTLIST Area
%label.attrib; --bug number/symbol override or initialization--
%linkends.attrib; --to any related information--
--
Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<![!--end of area.attlist-->]]>
<![!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![ %areaset.module; [ 
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">

<!ENTITY % areaset.element "INCLUDE">
<![ %areaset.element; [ 
<!ELEMENT AreaSet - - (Area+)>
<![!--end of areaset.element-->]]>

<!ENTITY % areaset.attlist "INCLUDE">
<![ %areaset.attlist; [ 
<![!-- FUTURE USE (V5.0): ]>
.................
Coord attribute will be removed from AreaSet
.................
-->
<!ATTLIST AreaSet
%label.attrib; --bug number/symbol override or initialization--
--
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<![--end of areaset.attlist--]]>
<![--end of areaset.module--]]>
<![--end of areaset.content.module--]]>

<![ENTITY % programlisting.module "INCLUDE">
<![ %programlisting.module; [ 
<![ENTITY % local.programlisting.attrib "">
<![ENTITY % programlisting.role.attrib "%role.attrib;">

<![ENTITY % programlisting.element "INCLUDE">
<![ %programlisting.element; [ 
<![ELEMENT ProgramListing - - ((CO | LineAnnotation | %para.char.mix;)+)> 
<![--end of programlisting.element--]]>

<![ENTITY % programlisting.attlist "INCLUDE">
<![ %programlisting.attlist; [ 
<![ATTLIST ProgramListing
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
> 
<![--end of programlisting.attlist--]]>
<![--end of programlisting.module--]]>
<!ENTITY % objectinfo.role.attrib;>
%!--end of objectinfo.attlist-->]]>
<!|--end of objectinfo.module-->]]>

<!ENTITY % local.objectdata.attrib "">
<!ENTITY % objectdata.attrib
--EntityRef: Name of an external entity containing the content
of the object data--
EntityRefENTITY#IMPLIED

--FileRef: Filename, qualified by a pathname if desired,
designating the file containing the content of the object data--
FileRef CDATA#IMPLIED

--Format: Notation of the element content, if any--
Format(%notation.class;)
#IMPLIED

--SrcCredit: Information about the source of the image--
SrcCreditCDATA#IMPLIED

%!--end of objectinfo.attlist-->

%!ENTITY % videodata.module "INCLUDE">
<![%videodata.module; [ 
<!ENTITY % local.videodata.attrib "">
<!ENTITY % videodata.role.attrib "%role.attrib;">

<!ENTITY % videodata.element "INCLUDE">
<![%videodata.element; [ 
<!ELEMENT VideoData - O EMPTY>
<!|--end of videodata.element-->]]>

<!ENTITY % videodata.attlist "INCLUDE">
<![%videodata.attlist; [ 
<!ATTLIST VideoData
%common.attrib;
%objectdata.attrib;

--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED
--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left | Right | Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED

%videodata.role.attrib;
%local.videodata.attrib;
>
<!--end of videodata.attlist-->]]>
<!--end of videodata.module-->]]>

<![ %audiodata.module; [
<!ENTITY % local.audiodata.attrib ""
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; [
<!ELEMENT AudioData - O EMPTY>
<!--end of audiodata.element-->]]>

<![ %audiodata.attlist; [
<!ATTLIST AudioData 
%common.attrib; 
%objectdata.attrib; 
%local.audiodata.attrib; 
%audiodata.role.attrib; 
>
<!--end of audiodata.attlist-->]]>
<!--end of audiodata.module-->]]>

<![ %imagedata.module "INCLUDE">
<![ %imagedata.module; [
<!ENTITY % local.imagedata.attrib ""
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!ENTITY % imagedata.element "INCLUDE">
<![ %imagedata.element; [
<!--end of imagedata.element-->

<!ENTITY % imagedata.attlist "INCLUDE">
<![ %imagedata.attlist; [ 
<!ATTLIST ImageData 
%common.attrib; 
%objectdata.attrib; 

--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals; 
#IMPLIED

%local.imagedata.attrib;
%imagedata.role.attrib;
>
<!--end of imagedata.attlist-->]]>
<!--end of imagedata.module-->]]>

<!ENTITY % caption.module "INCLUDE">
<![ %caption.module; [ 
<!ENTITY % local.caption.attrib "" >
<!ENTITY % caption.role.attrib "%role.attrib:" >

<!ENTITY % caption.element "INCLUDE">
<![ %caption.element; [ 
<!ELEMENT Caption - - (%textobject.mix;)* >
<!--end of caption.element--> ]]>

<!ENTITY % caption.attlist "INCLUDE">
<![ %caption.attlist; [ 
<!ATTLIST Caption 
%common.attrib;
This PE provides a mechanism for replacing equation content, perhaps adding a new or different model (e.g., MathML).
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE CmdSynopsis PUBLIC "-//OASIS//DTD Common Collection Format 1.0//EN" "http://docs.oasis-open.org/ccf/v1.0/ccf.dtd">

<CmdSynopsis>
  <Command>
    <Arg />
    <Group />
    <SBR />
  </Command>
  <SynopFragment />
</CmdSynopsis>
Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]]), or ReqMult (must supply one or more, e.g. {(g1|g2|g3))
--
Choice(Opt
|Req
|Plain)Opt
--
Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...)
--
Rep(Norepeat
|Repeat)Norepeat
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->]]>
<!--end of group.module-->]]>

<!ENTITY % sbr.module "INCLUDE">
<![ %sbr.module; [ ]
<!ENTITY % local.sbr.attrib ""
<!!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;"

<!ENTITY % sbr.element "INCLUDE">
<![ %sbr.element; [ ]
<!ELEMENT SBR - O EMPTY>
<!--end of sbr.element-->]]>

<!ENTITY % sbr.attlist "INCLUDE">
<![ %sbr.attlist; [ ]
<!ATTLIST SBR
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->]]>
<!-- FuncSynopsis ..................... -->

<!ENTITY % funcsynopsis.content.module "INCLUDE">
<![ %funcsynopsis.content.module; ]
<!ENTITY % funcsynopsis.module "INCLUDE">
<![ %funcsynopsis.module; ]

<!ENTITY % local.funcsynopsis.attrib "">
<!ENTITY % funcsynopsis.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsis.element "INCLUDE">
<![ %funcsynopsis.element; ]
<!ELEMENT FuncSynopsis - - (FuncSynopsisInfo|FuncPrototype)+>
<!--end of funcsynopsis.element-->
]
]

<!ENTITY % funcsynopsis.attlist "INCLUDE">
<![ %funcsynopsis.attlist; ]
<!ATTLIST FuncSynopsis
%label.attrib;
%common.attrib;
%funcsynopsis.role.attrib;
%local.funcsynopsis.attrib;
>
<!--end of funcsynopsis.attlist-->
]
]

<!ENTITY % funcsynopsisinfo.module "INCLUDE">
<![ %funcsynopsisinfo.module; ]
<!ENTITY % local.funcsynopsisinfo.attrib "">
<!ENTITY % funcsynopsisinfo.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsisinfo.element "INCLUDE">
<![ %funcsynopsisinfo.element; ]
<!ELEMENT FuncSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)*)>
<!--end of funcsynopsisinfo.element-->
]
]

<!ENTITY % funcsynopsisinfo.attlist "INCLUDE">
<![ %funcsynopsisinfo.attlist; ]
<!ATTLIST FuncSynopsisInfo
%linespecific.attrib;
%common.attrib;
%funcsynopsisinfo.role.attrib;
%local.funcsynopsisinfo.attrib;
>
<!--end of funcsynopsisinfo.attlist-->
]
]
<!-- Processing assumes that only one Parameter will appear in a
   ParamDef, and that FuncParams will be used at most once, for
   providing information on the "inner parameters" for parameters that
   are pointers to functions. -->

<!--%paramdef.module-->
<!ENTITY % paramdef.module "INCLUDE">
<![ %paramdef.module; [ 
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 

<!ENTITY % paramdef.element "INCLUDE">
<![ %paramdef.element; [ 
<!ELEMENT ParamDef - - ((#PCDATA
 | Replaceable

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| Parameter | FuncParams|)*|> |<!-end of paramdef.element-->]]>

<!ENTITY % paramdef.attlist "INCLUDE">
<![ %paramdef.attlist; [ 
<!ATTLIST ParamDef
%common.attrib;
%paramdef.role.attrib;
%local.paramdef.attrib;
> 
<!-end of paramdef.attlist-->]]>
<!-end of paramdef.module-->]]>

<!ENTITY % funcparams.module "INCLUDE">
<![ %funcparams.module; [ 
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">

<!ENTITY % funcparams.element "INCLUDE">
<![ %funcparams.element; [ 
<!ELEMENT FuncParams - - ((%cptr.char.mix;)*>
<!-end of funcparams.element-->]]>

<!ENTITY % funcparams.attlist "INCLUDE">
<![ %funcparams.attlist; [ 
<!ATTLIST FuncParams
%common.attrib;
%funcparams.role.attrib;
%local.funcparams.attrib;
> 
<!-end of funcparams.attlist-->]]>
<!-end of funcparams.module-->]]>

<!- LineAnnotation (defined in the Inlines section, below)-->
<!- Replaceable (defined in the Inlines section, below)-->
<!- Function (defined in the Inlines section, below)-->
<!- Parameter (defined in the Inlines section, below)-->
<!-end of funcsynopsis.content.module-->]]>

<!- ClassSynopsis ..................... -->

<!ENTITY % classsynopsis.content.module "INCLUDE">
<![ %classsynopsis.content.module;[

<!ENTITY % classsynopsis.module "INCLUDE">
<![ %classsynopsis.module;[
<!ENTITY % local.classsynopsis.attrib "">
%ooexception.role.attrib;
%local.ooexception.attrib;
>
<!--end of ooexception.attlist-->]]>
<!--end of ooexception.module-->]]>

<!ENTITY % modifier.module "INCLUDE">
<![modifier.module:]
<!ENTITY % local.modifier.attrib "">
<!ENTITY % modifier.role.attrib "%role.attrib;">

<!ENTITY % modifier.element "INCLUDE">
<![modifier.element:]
<!ELEMENT Modifier - - (%smallcptr.char.mix;)*>
<!--end of modifier.element-->]]>

<!ENTITY % modifier.attlist "INCLUDE">
<![modifier.attlist:]
<!ATTLIST Modifier
%common.attrib;
%modifier.role.attrib;
%local.modifier.attrib;
>
<!--end of modifier.attlist-->]]>
<!--end of modifier.module-->]]>

<!ENTITY % interfacename.module "INCLUDE">
<![interfacename.module:]
<!ENTITY % local.interfacename.attrib "">
<!ENTITY % interfacename.role.attrib "%role.attrib;">

<!ENTITY % interfacename.element "INCLUDE">
<![interfacename.element:]
<!ELEMENT InterfaceName - - (%smallcptr.char.mix;)*>
<!--end of interfacename.element-->]]>

<!ENTITY % interfacename.attlist "INCLUDE">
<![interfacename.attlist:]
<!ATTLIST InterfaceName
%common.attrib;
%interfacename.role.attrib;
%local.interfacename.attrib;
>
<!--end of interfacename.attlist-->]]>
<!--end of interfacename.module-->]]>

<!ENTITY % exceptionname.module "INCLUDE">
<![exceptionname.module:]

---
<!ENTITY % modespec.attlist "INCLUDE">
<![ %modespec.attlist; [
<!ATTLIST ModeSpec
  --
  Application: Type of action required for completion
  of the links to which the ModeSpec is relevant (e.g.,
  retrieval query)
  --
  Application
  NOTATION
  (%notation.class;)#IMPLIED
  %common.attrib;
  %modespec.role.attrib;
  %local.modespec.attrib;
  >
  <!--end of modespec.attlist-->]]>
  <!--end of modespec.module-->]]>

  <!-- OrgName ......................... -->

  <!ENTITY % orgname.module "INCLUDE">
  <![ %orgname.module; [
  <!ENTITY % local.orgname.attrib "">
  <!ENTITY % orgname.role.attrib "%role.attrib;">>

  <!ENTITY % orgname.element "INCLUDE">
  <![ %orgname.element; [
  <!ELEMENT OrgName - - ((%docinfo.char.mix;)+)>]
  <!--end of orgname.element-->]]>

  <!ENTITY % orgname.attlist "INCLUDE">
  <![ %orgname.attlist; [
  <!ATTLIST OrgName
  %common.attrib;
  %orgname.role.attrib;
  %local.orgname.attrib;
  >
  <!--end of orgname.attlist-->]]>
  <!--end of orgname.module-->]]>

  <!-- OtherCredit ...................... -->

  <!ENTITY % othercredit.module "INCLUDE">
  <![ %othercredit.module; [
  <!ENTITY % local.othercredit.attrib "">
  <!ENTITY % othercredit.role.attrib "%role.attrib;">>

  <!ENTITY % othercredit.element "INCLUDE">
<!ATTLIST Honorific
%common.attrib;
%honorific.role.attrib;
%local.honorific.attrib;
>
<!--end of honorific.attlist-->

<!ENTITY % lineage.module "INCLUDE">
<![ %lineage.module; [
<!ENTITY % local.lineage.attrib "">
<!ENTITY % lineage.role.attrib "%role.attrib;">

<!ENTITY % lineage.element "INCLUDE">
<![ %lineage.element; [
<!ELEMENT Lineage - - (%docinfo.char.mix;)+>
<!--end of lineage.element-->

<!ENTITY % lineage.attlist "INCLUDE">
<![ %lineage.attlist; [
<!ATTLIST Lineage
%common.attrib;
%lineage.role.attrib;
%local.lineage.attrib;
>
<!--end of lineage.attlist-->

<!ENTITY % othername.module "INCLUDE">
<![ %othername.module; [
<!ENTITY % local.othername.attrib "">
<!ENTITY % othername.role.attrib "%role.attrib;">

<!ENTITY % othername.element "INCLUDE">
<![ %othername.element; [
<!ELEMENT OtherName - - (%docinfo.char.mix;)+>
<!--end of othername.element-->

<!ENTITY % othername.attlist "INCLUDE">
<![ %othername.attlist; [
<!ATTLIST OtherName
%common.attrib;
%othername.role.attrib;
%local.othername.attrib;
>
<!--end of othername.attlist-->

<!--end of othername.module-->

---

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<!ENTITY % surname.module "INCLUDE">
<!ENTITY % surname.element "INCLUDE">
<!ENTITY % surname.attlist "INCLUDE">
<!ATTLIST Surname %common.attrib;
%surname.role.attrib;
%local.surname.attrib;
>
<!-- PrintHistory ..................... -->

<!ENTITY % printhistory.module "INCLUDE">
<!ENTITY % printhistory.element "INCLUDE">
<!ENTITY % printhistory.attlist "INCLUDE">
<!ATTLIST PrintHistory %common.attrib;
%printhistory.role.attrib;
%local.printhistory.attrib;
>
<!-- ProductName ...................... -->

<!ENTITY % productname.module "INCLUDE">
<!ENTITY % productname.element "INCLUDE">
<!ENTITY % productname.role.attrib "%role.attrib;">

<!ENTITY % productname.element "INCLUDE">
<!ENTITY % productname.attlist "INCLUDE">
<!ATTLIST ProductName Class: More precisely identifies the item the element names
   Class(Service
   [Trade
   [Registered
   [Copyright)Trade
   %common.attrib;
   %productname.role.attrib;
   %local.productname.attrib;
>
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common.attrib;
   %productnumber.role.attrib;
   %local.productnumber.attrib;
>
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common.attrib;
   %productnumber.role.attrib;
   %local.productnumber.attrib;
>
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common.attrib;
   %productnumber.role.attrib;
   %local.productnumber.attrib;
>
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber.attrib;
>
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role attrib "%role attrib;">

<!-- PubDate ......................... -->

<!ENTITY % productname.element "INCLUDE">
<!ENTITY % productname.attlist "INCLUDE">
<!ATTLIST ProductName --
   Class: More precisely identifies the item the element names
   Class(Service
   [Trade
   [Registered
   [Copyright)Trade
   %common.attrib;
   %productname.role attrib;
   %local.productname attrib;
>
<!ENTITY % productname.element "INCLUDE">
<!ENTITY % productname.attlist "INCLUDE">
<!ATTLIST ProductName --
   Class: More precisely identifies the item the element names
   Class(Service
   [Trade
   [Registered
   [Copyright)Trade
   %common.attrib;
   %productname.role attrib;
   %local.productname attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % productnumber.element "INCLUDE">
<!ENTITY % productnumber.attlist "INCLUDE">
<!ATTLIST ProductNumber %common attrib;
   %productnumber.role attrib;
   %local.productnumber attrib;
>
<!ENTITY % database.attlist "INCLUDE">
<![ %database.attlist; [
<!ATTLIST Database
--
Class: Type of database the element names; no default
--
Class (Name
|Table
|Field
|Key1
|Key2
|Record)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%database.role.attrib;
%local.database.attrib;
>
<![--end of database.attlist--]>>
<![--end of database.module--]>>

<!ENTITY % email.module "INCLUDE">
<![ %email.module; [
<!ENTITY % local.email.attrib "">
<!ENTITY % email.role.attrib "%role.attrib;">

<!ENTITY % email.element "INCLUDE">
<![ %email.element; [
<!ELEMENT Email - - ((%docinfo.char.mix;)+)
<![--end of email.element--]>>

<!ENTITY % email.attlist "INCLUDE">
<![ %email.attlist; [
<!ATTLIST Email
%common.attrib;
%email.role.attrib;
%local.email.attrib;
>
<![--end of email.attlist--]>>
<![--end of email.module--]>>

<!ENTITY % envar.module "INCLUDE">
<![ %envar.module; [
<!ENTITY % local.envar.attrib "">
<!ENTITY % envar.role.attrib "%role.attrib;">

<!ENTITY % envar.element "INCLUDE">
<![ %envar.element; [
<!ELEMENT EnVar - - ((%smallcptr.char.mix;)+)>

---
<!ENTITY % errorname.role.attrib; %local.errorname.attrib; >
<!--end of errorname.attriblist-->]]>
<!--end of errorname.module-->]]>

<!ENTITY % errortype.module "INCLUDE">
<![ %errortype.module; [ 
<!ENTITY % local.errortype.attrib "">
<!ENTITY % errortype.role.attrib "%role.attrib;">

<!ENTITY % errortype.element "INCLUDE">
<![ %errortype.element; [ 
<!ELEMENT ErrorType - - (%smallcptr.char.mix;)+]>
<!--end of errortype.element-->]]>
<!--end of errortype.module-->]]>

<!ENTITY % filename.module "INCLUDE">
<![ %filename.module; [ 
<!ENTITY % local.filename.attrib "">
<!ENTITY % filename.role.attrib "%role.attrib;">

<!ENTITY % filename.element "INCLUDE">
<![ %filename.element; [ 
<!ELEMENT Filename - - (%smallcptr.char.mix;)+]>
<!--end of filename.element-->]]>
<!--end of filename.module-->]]>

<!ENTITY % filename.attlist "INCLUDE">
<![ %filename.attlist; [ 
<!ATTLIST ErrorType
%common.attrib;
%errortype.role.attrib;
%local.errortype.attrib;
> 
<!--end of errortype.attlist-->]]>
<!--end of errortype.module-->]]>

<!ENTITY % filename.attlist "INCLUDE">
<![ %filename.attlist; [ 
<!ATTLIST Filename
--
Class: Type of filename the element names; no default
--
Class/HeaderFile
|DeviceFile
|Directory
|LibraryFile
|SymLink)#IMPLIED
--
Path: Search path (possibly system-specific) in which file can be found

--
PathCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->]]>
<!--end of filename.module-->]]>

<!ENTITY % function.module "INCLUDE">
<![ %function.module; [ 
<!ENTITY % local.function.attrib "">
<!ENTITY % function.role.attrib "%role.attrib;">}

<!ENTITY % function.element "INCLUDE">
<![ %function.element; [ 
<!ELEMENT Function - - ((%cptr.char.mix;)+)> 
<!--end of function.element-->
]]>

<!ENTITY % function.attlist "INCLUDE">
<![ %function.attlist; [ 
<!ATTLIST Function
%moreinfo.attrib;
%common.attrib;
%function.role.attrib;
%local.function.attrib;
>
<!--end of function.attlist-->]]>
<!--end of function.module-->]]>

<!ENTITY % guibutton.module "INCLUDE">
<![ %guibutton.module; [ 
<!ENTITY % local.guibutton.attrib "">
<!ENTITY % guibutton.role.attrib "%role.attrib;">}

<!ENTITY % guibutton.element "INCLUDE">
<![ %guibutton.element; [ 
<!ELEMENT GUIButton - - ((%smallcptr.char.mix;|Accel)+)> 
<!--end of guibutton.element-->
]]>

<!ENTITY % guibutton.attlist "INCLUDE">
<![ %guibutton.attlist; [ 
<!ATTLIST GUIButton
%moreinfo.attrib;
%common.attrib;
<!ENTITY % shortcut.module "INCLUDE">
<![%shortcut.module; [ 
<!-- See also KeyCombo --> 
<!ENTITY % local.shortcut.attrib "">
<!ENTITY % shortcut.role.attrib "%role.attrib;">

<!ENTITY % shortcut.element "INCLUDE">
<![%shortcut.element; [ 
<!ELEMENT Shortcut - - ((KeyCap|KeyCombo|KeySym|MouseButton)+)>
<!--end of shortcut.element-->
]
>
<!ENTITY % shortcut.attlist "INCLUDE">
<![%shortcut.attlist; [ 
<!ATTLIST Shortcut 
%keyaction.attrib; 
%moreinfo.attrib; 
%common.attrib; 
%shortcut.role.attrib; 
%local.shortcut.attrib; > 
<!--end of shortcut.attlist-->
]
>
<!ENTITY % mousebutton.module "INCLUDE">
<![%mousebutton.module; [ 
<!ENTITY % local.mousebutton.attrib "">
<!ENTITY % mousebutton.role.attrib "%role.attrib;">

<!ENTITY % mousebutton.element "INCLUDE">
<![%mousebutton.element; [ 
<!ELEMENT MouseButton - - (%smallcptr.char.mix;)+)>
<!--end of mousebutton.element-->
]
>
<!ENTITY % mousebutton.attlist "INCLUDE">
<![%mousebutton.attlist; [ 
<!ATTLIST MouseButton 
%moreinfo.attrib; 
%common.attrib; 
%mousebutton.role.attrib; 
%local.mousebutton.attrib; > 
<!--end of mousebutton.attlist-->
]>

The content model of MsgText will be reduced. It will be made the same as %example.mix; although it may not use that PE.

-->  
<!ELEMENT MsgText - - ((%component.mix;)+)>  
<!--end of msgtext.element-->]]>  

<!ENTITY % option.module "INCLUDE">  
<![ %option.module; [  
<!ENTITY % option.role.attrib "%role.attrib;">  
<!ENTITY % option.element "INCLUDE">  
<![ %option.element; [  
<!ELEMENT Option - - (%smallcptr.char.mix;)*>  
<!--end of option.element-->]]>  
<!--end of option.module-->]]>  

<!ENTITY % option.attlist "INCLUDE">  
<![ %option.attlist; [  
<!ATTLIST Option  
%common.attrib;  
%option.role.attrib;  
%local.option.attrib;  
>  
<!--end of option.attlist-->]]>  
<!--end of option.module-->]]>
<!ENTITY % optional.module "INCLUDE">
<![ %optional.module; [
<!ENTITY % local.optional.attrib "">
<!ENTITY % optional.role.attrib "%role.attrib;">

<!ENTITY % optional.element "INCLUDE">
<![ %optional.element; [
<!ELEMENT Optional - - ((%cptr.char.mix;)+)>
<!--end of optional.element-->]]>

<!ENTITY % optional.attlist "INCLUDE">
<![ %optional.attlist; [
<!ATTLIST Optional 
%common.attrib;
%optional.role.attrib;
%local.optional.attrib;
> 
<!--end of optional.attlist-->]]>
<!--end of optional.module-->]]>

<!ENTITY % parameter.module "INCLUDE">
<![ %parameter.module; [
<!ENTITY % local.parameter.attrib "">
<!ENTITY % parameter.role.attrib %role.attrib;">

<!ENTITY % parameter.element "INCLUDE">
<![ %parameter.element; [
<!ELEMENT Parameter - - (%smallcptr.char.mix;)*> 
<!--end of parameter.element-->]]>

<!ENTITY % parameter.attlist "INCLUDE">
<![ %parameter.attlist; [
<!ATTLIST Parameter 
Class: Type of the Parameter; no default
-- 
Class (Command |Function |Option)#IMPLIED 
%moreinfo.attrib;
%common.attrib;
%parameter.role.attrib;
%local.parameter.attrib;
> 
<!--end of parameter.attlist-->]]>
<!--end of parameter.module-->]]>

<!ENTITY % prompt.module "INCLUDE">
<!ELEMENT Replaceable - - ((#PCDATA
| %link.char.class;
| Optional
| %base.char.class;
| %other.char.class;
| InlineGraphic
| InlineMediaObject)+)
<!--end of replaceable.element-->>

<!ENTITY % replaceable.attlist "INCLUDE">
<![] %replaceable.attlist; [
<!ATTLIST Replaceable
--
Class: Type of information the element represents; no
default
--
Class(Command
| Function
| Option
| Parameter)#IMPLIED
%common.attrib;
%replaceable.role.attrib;
%local.replaceable.attrib;
>
<!--end of replaceable.attlist-->>
<!--end of replaceable.module-->>

<!ENTITY % returnvalue.module "INCLUDE">
<![] %returnvalue.module; [
<!ENTITY % local.returnvalue.attrib "">
<!ENTITY % returnvalue.role.attrib "%role.attrib;">

<!ENTITY % returnvalue.element "INCLUDE">
<![] %returnvalue.element; [
<!ELEMENT ReturnValue - - (%smallcptr.char.mix;)+)
<!--end of returnvalue.element-->>

<!ENTITY % returnvalue.attlist "INCLUDE">
<![] %returnvalue.attlist; [
<!ATTLIST ReturnValue
%common.attrib;
%returnvalue.role.attrib;
%local.returnvalue.attrib;
>
<!--end of returnvalue.attlist-->>
<!--end of returnvalue.module-->>

<!ENTITY % sgmltag.module "INCLUDE">
<!ENTITY % manvolnum.module "INCLUDE">
<![ %manvolnum.module; [
<!ENTITY % local.manvolnum.attrib "">
<!ENTITY % namvolnum.role.attrib "%role.attrib;">

<!ENTITY % manvolnum.element "INCLUDE">
<![ %manvolnum.element; [
<!ELEMENT ManVolNum - O (%word.char.mix;) >
<!--end of manvolnum.element-->
]
]
]
]
]

<!ENTITY % manvolnum.attlist "INCLUDE">
<![ %manvolnum.attlist; [
<!ATTLIST ManVolNum
%common.attrib;
%namvolnum.role.attrib;
%local.manvolnum.attrib;
>
<!--end of manvolnum.attlist-->
]
]
]
]
]

<!ENTITY % citetitle.module "INCLUDE">
<![ %citetitle.module; [
<!ENTITY % local.citetitle.attrib "">
<!ENTITY % citetitle.role.attrib "%role.attrib;">

<!ENTITY % citetitle.element "INCLUDE">
<![ %citetitle.element; [
<!ELEMENT CiteTitle - - (%para.char.mix;)+
<!--end of citetitle.element-->
]
]
]
]
]

<!ENTITY % citetitle.attlist "INCLUDE">
<![ %citetitle.attlist; [
<!ATTLIST CiteTitle
Pubwork: Genre of published work cited; no default
--
Pubwork(Article
|Book
|Chapter
|Part
|RefEntry
|Section
<!-end of glossterm.module-->

<!ENTITY % phrase.module "INCLUDED">
<![ %phrase.module; [ 
<!ENTITY % local.phrase.attrib ""
<!ENTITY % phrase.role.attrib "%role.attrib;">

<!ENTITY % phrase.element "INCLUDED">
<![ %phrase.element; [ 
<!ELEMENT Phrase - - ((%para.char.mix;)++)>
<!-end of phrase.element-->

<!ENTITY % phrase.attlist "INCLUDED">
<![ %phrase.attlist; [ 
<!ATTLIST Phrase %common.attrib;
%phrase.role.attrib;
%local.phrase.attrib;
>
<!-end of phrase.attlist-->

<!ENTITY % quote.module "INCLUDED">
<![ %quote.module; [ 
<!ENTITY % local.quote.attrib ""
<!ENTITY % quote.role.attrib "%role.attrib;">

<!ENTITY % quote.element "INCLUDED">
<![ %quote.element; [ 
<!ELEMENT Quote - - ((%para.char.mix;)++)>
<!-end of quote.element-->

<!ENTITY % quote.attlist "INCLUDED">
<![ %quote.attlist; [ 
<!ATTLIST Quote %common.attrib;
%quote.role.attrib;
%local.quote.attrib;
>
<!-end of quote.attlist-->

<!ENTITY % sssscript.module "INCLUDED">
<![ %ssscript.module; [ 
<!ENTITY % local.sssscript.attrib ""
<!ENTITY % sssscript.role.attrib "%role.attrib;">

<!ENTITY % sssscript.elements "INCLUDED">

---

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Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element
EndtermIDREF#IMPLIED
%linkendreq.attrib; --to linked-to object--
Type: Freely assignable parameter
TypeCDATA#IMPLIED
%common.attrib;
$link.role.attrib;
%local.link.attrib;

<!ENTITY % olink.module "INCLUDE">
<!% olink.module; [
<!ENTITY % local.olink.attrib """>
<!ENTITY % olink.role.attrib "%role.attrib;">

<!ENTITY % olink.element "INCLUDE">
<!% olink.element; [
<!ELEMENT OLink - - ((%para.char.mix;)+) %links.exclusion;>
<!-%end-of olink.element-->]]>

<!ENTITY % olink.attlist "INCLUDE">
<!% olink.attlist; [
<!ATTLIST OLink
TargetDocEnt: Name of an entity to be the target of the link
TargetDocEntENTITY #IMPLIED
LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt
LinkModeIDREF#IMPLIED
LocalInfo: Information that may be passed to ModeSpec
LocalInfo CDATA#IMPLIED
Type: Freely assignable parameter
TypeCDATA#IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
>
<!--begin of indexterm.element-->

<!ENTITY % indexterm.attlist "INCLUDE">
<![ %indexterm.attlist; [ 
<!ATTLIST IndexTerm 
%pagenum.attrib; 
-- 
Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) 
-- 
Scope(All 
[Global 
[Local])#IMPLIED 
-- 
Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) 
-- 
Significance(Preferred 
[Normal])Normal 
-- 
Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges 
-- 
Class(Singular 
[StartOfRange 
[EndOfRange])#IMPLIED 
-- 
StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm 
-- 
StartRefIDREF#CONREF 
-- 
Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs 
-- 
ZoneIDREFS#IMPLIED 
%common.attrib; 
%indexterm.role.attrib; 
%local.indexterm.attrib; 
> 
<!--end of indexterm.attlist-->]]>
<!--end of indexterm.element-->]]>
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$Id: docbookx.dtd,v 1.21 2004/03/31 10:59:14 nwalsh Exp $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-
archive-sLxqqjbD/docbook41.zip-cosi-expand-archive-tHWCf4mF/dbpool.mod

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$Id: dbnotnx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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<!ENTITY % dbnotn PUBLIC "-//OASIS//ENTITIES DocBook Notations V4.5//EN" "dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | SVG | PDF | SWF | linespecific"
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<!-- ...................................................................... -->
<!-- DocBook XML HTML Table Module V4.5 ......................... -->
<!-- File htmltblx.mod .................................................... -->


$Id: htmltblx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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--> 

<!-- ...................................................................... -->

<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.5 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!--XHTML Tables -->

<!ENTITY % html.coreattrs "%
"common.attrib;
class       CDATA          #IMPLIED
style       CDATA          #IMPLIED
title       CDATA         #IMPLIED"
>

<!-- Does not contain lang or dir because they are in %common.attribs -->

<![%sgml.features;
<!ENTITY % i18n "">
]]>

<!ENTITY % i18n "xml:lang    NMTOKEN        #IMPLIED"
>

<!ENTITY % events "onclick     CDATA       #IMPLIED
ondblclick  CDATA       #IMPLIED
onmousedown CDATA       #IMPLIED
onmouseup   CDATA       #IMPLIED
onmouseover CDATA       #IMPLIED
onmousemove CDATA       #IMPLIED
onmouseout  CDATA       #IMPLIED
onkeypress  CDATA       #IMPLIED
onkeydown   CDATA       #IMPLIED
onkeyup     CDATA       #IMPLIED"
>

<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">

<!ENTITY % cellhalign "align      (left|center|right|justify|char) #IMPLIED
char       CDATA    #IMPLIED
charoff    CDATA       #IMPLIED"
<!ENTITY % cellvalign "valign (top|middle|bottom|baseline) #IMPLIED">

<!--doc:A group of columns in an HTML table.-->
<!ELEMENT colgroup %ho; (col)+>

<!--doc:Specifications for a column in an HTML table.-->
<!ELEMENT col %ho; EMPTY>

<!--doc:A row in an HTML table.-->
<!ELEMENT tr %ho; (th|td)+>

<!--doc:A table header entry in an HTML table.-->
<!ELEMENT th %ho; (%para.char.mix; | %tabentry.mix; | table | informaltable)*>

<!--doc:A table entry in an HTML table.-->
<!ELEMENT td %ho; (%para.char.mix; | %tabentry.mix; | table | informaltable)*>

<!ATTLIST colgroup
%attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST col
%attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST tr
%attrs;
%cellhalign;
%cellvalign;
bgcolor CDATA #IMPLIED
>

<!ATTLIST th
%attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
headers IDREFS #IMPLIED
scope (row|col|rowgroup|colgroup) #IMPLIED
rowspan CDATA "1"
colspan CDATA "1"
<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->

<!-- Add label and role attributes to table and informaltable -->

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->

<!-- Entity: % tables.role.attrib -->

<!-- Entity: % bodyatt -->

<!-- Entity: % secur -->
<!ENTITY % tables.role.attrib;">

<!ENTITY % common.table.attribs "%bodyatt;
%secur;"> 

<!-- Content model for Table (that also allows HTML tables) -->

<!ENTITY % tbl.table.mdl "((blockinfo?,
   (%formalobject.title.content;),
   (%ndxterm.class;)*,
   textobject*,
   (graphic+|mediaobject+|tgroup+))
  |(caption, (col*|colgroup*),thead?,tfoot?,(tbody+|tr+)))">

<!ENTITY % informal.tbl.table.mdl "((textobject*,
   (graphic+|mediaobject+|tgroup+))
 | ((col*|colgroup*),thead?,tfoot?,(tbody+|tr+)))">

<!-- Attributes for Table (including HTML ones) -->

<!ENTITY % tbl.table.att 'tabstyle CDATA #IMPLIED
tocentry %yesorno.attvals; #IMPLIED
shortentry %yesorno.attvals; #IMPLIED
orient (port|land) #IMPLIED
pgwide %yesorno.attvals; #IMPLIED
summary CDATA #IMPLIED
width CDATA #IMPLIED
border CDATA #IMPLIED
rules CDATA#IMPLIED
cellspacing CDATA #IMPLIED
cellpadding CDATA #IMPLIED
align (left|center|right) #IMPLIED
bgcolor CDATA #IMPLIED
'">

<!-- Allow either objects or inlines; beware of REs between elements. -->

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!-- Allow either objects or inlines; beware of REs between elements. -->

<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;">
<!-- thead, tfoot, and tbody are defined in both table models, so we set up parameter entities to define union models for them -->

<!ENTITY % tbl.hdft.mdl "(tr+(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl "(tr+|row+)">
<!ENTITY % tbl.valign.attval "top|middle|bottom|baseline">

<![endif]-->

<!- End of DocBook XML HTML Table Module V4.5 ......................... -->
<!- ................................................................. -->

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.5.zip-cosi-expand-archive-A7LkIFyZ/htmltblx.mod
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-xml-4.5.zip-cosi-expand-archive-zH39CNMP/htmltblx.mod
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<![endif]-->

<![endif]-->

<!- DocBook document hierarchy module V3.0 ............................ -->
<!- File dbhier.mod .................................................. -->

<![endif]-->

<![endif]-->


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* Terry Allen, Fujitsu Software Corporation
  3055 Orchard Drive, San Jose, CA 95134
  <tallen@fsc.fujitsu.com>

* Eve Maler, ArborText Inc.

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This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbhier PUBLIC
"-//Davenport//ELEMENTS DocBook Document Hierarchy V3.0//EN">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">
```

```
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "Appendix %local.appendix.class;">
```

```
<!ENTITY % local.article.class "">
<!ENTITY % article.class "Article %local.article.class;">
```

```
<!ENTITY % local.book.class "">
<!ENTITY % book.class "Book %local.book.class;">
```

```
<!ENTITY % local.chapter.class "">
```
<!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![ %dbhier.redecl2.module; [ %rdbhier2; <![--end of dbhier.redecl2.module--]>]]>

<!-- Entities for content models .......................................... -->

<!ENTITY % div.title.content "Title, TitleAbbrev?">

<!--FUTURE USE (V4.0):
......................
The DocInfo element will be split out into ChapterInfo, AppendixInfo, etc.
...................... -->

<!ENTITY % bookcomponent.title.content "DocInfo?, Title, TitleAbbrev?">

<!ENTITY % sect.title.content "Title, TitleAbbrev?">

<!ENTITY % refsect.title.content "Title, TitleAbbrev?">

<!ENTITY % bookcomponent.content "((%divcomponent.mix;)+, (Sect1*|(%refentry.class;)*|SimpleSect*)) | (Sect1+|(%refentry.class;)+|SimpleSect+)">

<!-- Set and SetInfo ...................................................... -->

<!ENTITY % set.content.module "INCLUDE"> <![ %set.content.module; [ <![ %set.module "INCLUDE" ]]]>
The DocInfo element will be split out into ChapterInfo, AppendixInfo, etc.

...
<!ENTITY % refsect3.module "INCLUDE">
<![ %refsect3.module; [ 
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">
<!ELEMENT RefSect3 - O (RefSect3Info?, (%refsect.title.content;), (%refcomponent.mix;)+)>
<!ATTLIST RefSect3
%status.attrib;
%common.attrib;
%refsect3.role.attrib;
%local.refsect3.attrib;
> 
<!--end of refsect3.module--]>
<![ %refentry.content.module; ]>]

<!-- .............................................................. -->
<!-- Article .............................................................. -->

<!ENTITY % article.module "INCLUDE">
<![ %article.module; [ 
<!-- An Article is a chapter-level, stand-alone document that is often, 
but need not be, collected into a Book. -->
<!--FUTURE USE (V4.0): 
...................... 
The %nav.class; entity now allows ToC; ToCchap will be allowed instead. 
RefEntry will be removed from the main content of Article. 
...................... -->

<!--FUTURE USE (V4.0): 
...................... 
The ArtHeader element will be renamed to ArticleInfo. 
...................... -->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">
<!ELEMENT Article - O (ArtHeader, ToCchap?, LoT*, (%bookcomponent.content;), ((%nav.class;) | (%appendix.class;) | Ackno)*) +(%ubiq.mix;)>
<!ATTLIST Article
Class: Indicates the type of a particular article; 
all articles have the same structure and general purpose. 
No default. 
-- 
Class(JournalArticle | ProductSheet
No license file was found, but licenses were detected in source scan.


$Id: dbhierx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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```xml
<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.5//EN"
"dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
<!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<!-- <![endif]-->
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;]
<!--doc:An entry in a list of titles.-->
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
<!--end of lotentry.element-->
]

<!-- SrcCredit: Information about the source of the entry, as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
<!ATTLIST lotentry
%linkend.attrib;
%pagenum.attrib;
srccreditCDATA#IMPLIED
%common.attrib;
%lotentry.role.attrib;
%local.lotentry.attrib;
>]
<!--end of lotentry.attlist-->
]
<!--end of lotentry.module-->
]

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
<![%appendix.element;[
<!--doc:An appendix in a Book or Article.-->
<!ELEMENT appendix %ho; (beginpage?,
appendixinfo?,
(appendixcontent.content;)
(appendixcontent.content;)
)%ubiq.inclusion;
<!--end of appendix.element-->
]]>

<!ENTITY % appendix.attlist "INCLUDE">
<ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module:]
<ENTITY % local.glossdiv.attrib "">
<ENTITY % glossdiv.role.attrib "%role.attrib;">

<ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element:]
<!--doc:A division in a Glossary.-->
<ELEMENT glossdiv %ho; ((%sect.title.content;), (%component.mix;)*,
glossentry+)
<![!--end of glossdiv.element-->]]>

<ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist:]
<!ATTLIST glossdiv
%status.attrib;
%common.attrib;
%glossdiv.role.attrib;
%local.glossdiv.attrib;
>
<![!--end of glossdiv.attlist-->]]>

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module:]
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module:]
<ENTITY % local.indexes.attrib "">
<ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![%index.element:]
<!--doc:An index.-->
<ELEMENT index %ho; (indexinfo?,
  (%bookcomponent.title.content;)?,
  (%component.mix;)*,
  (indexdiv* | indexentry*))
%ndxterm.exclusion;>
<![!--end of index.element-->]]>
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.

ParentBook: ID of the enclosing Book.
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-
archive-sLxqqjbD/docbook-4.5.zip-cosi-expand-archive-A7LkIFyZ/dbhierx.mod
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-
archive-sLxqqjbD/docbook-xml-4.5.zip-cosi-expand-archive-zH39CNMP/dbhierx.mod

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<!-- DocBook character entities module V4.2 .......................... -->
<!-- File dbcentx.mod ..................................................... -->
<!-- End of DocBook document hierarchy module V4.5 ........................ -->
<!-- End of article.module-->]]>
<!-- end of article.attlist-->]]>

</!- End of article.xref -->]]>
</!- End of article.attlist -->]]>
</!- End of article.module -->]]>
</!- End of DocBook document hierarchy module V4.5 ........................ -->
</!- ................................................................. -->
</!- DocBook character entities module V4.2 .......................... -->
</!- File dbcentx.mod ..................................................... -->
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<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ![ENTITY % dbcent PUBLIC "-/OASIS//ENTITIES DocBook Character Entities V4.2//EN" "dbcentx.mod"> %dbcent; -->

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ![ENTITY % ISOamsa.module "INCLUDE"> -->
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<!-- ...................................................................... -->
<!-- DocBook notations module V3.1 ........................................ -->
<!-- File dbnotn.mod ...................................................... -->

<!-- ...................................................................... -->
Software Corporation, and the Organization for the Advancement of
Structured Information Standards (OASIS).

$Id: dbnotn.mod 3.1 1999/02/02 11:53:03 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Notations V3.1//EN">
%dbhier;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->
<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI |
| EPS | EQN | FAX | GIF | GIF87a | GIF89a |
| JPG | JPEG | IGES | PCX |
| PIC | PS | SGML | TBL | TEX | TIFF | WMF | WPG |
linespecific
%local.notation.class;">

<!NOTATION BMPPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!-- EQN was SYSTEM "/-//AT&T/NOTATION EQN-1//EN" -->
<!NOTATION EQNSYSTEM>
<!NOTATION FAXPUBLIC
"-/USA-DOD/NOTATION CCITT Group 4 Facsimile Type 1 Untitled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 87a//EN">
<!NOTATION GIF89a PUBLIC
"-/CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPEGSYSTEM "JPG">
<!NOTATION JPEGSYSTEM "JPG">
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!-- PIC was SYSTEM "/-//AT&T/NOTATION EQN-1//EN" -->
<!NOTATION PICSYSTEM>
<!NOTATION PSSYSTEM "PS">
<!NOTATION SGMLPUBLIC
<!-- TBL was SYSTEM "/-//AT&T/NOTATION EQN-1//EN" -->
<!NOTATION TBLSYSTEM>
<!NOTATION TEXPUBLIC
<!NOTATION TIFFSYSTEM "TIFF">
<!NOTATION WMFPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPGSYSTEM "WPG" --WordPerfect Graphic format-->
<!NOTATION linespecificSYSTEM
"line ends and leading white space must be preserved in output">

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk31.zip-cosi-expand-archive-DezE9y2U/dbnotn.mod
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<!-- ...................................................................... -->
<!-- DocBook character entities module V4.5 ......................... -->
<!-- File dbcentx.mod ..................................................... -->

<!-- ...................................................................... -->
<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. -->


$Id: dbcentx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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<!-- -->

<!-- ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.5//EN"

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See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--
<!%- sgml.features;

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [ 
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [ 
<!ENTITY % ISOamsb PUBLIC
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ 
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [ 
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [ 
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [ 
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsr.module-->]]>
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elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC "-//OASIS//ELEMENTS DocBook Information Pool V3.1//EN"> %dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!-- ................................. -->
<!-- General-purpose semantics entities ................................... -->

<!ENTITY % yesorno.attvals"NUMBER">

<![IGNORE[
<!ENTITY % yes.attval"1"> <!-- never actually used -->
]]>

<!ENTITY % no.attval"0">

<!-- ................................. -->
<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- ................................. -->
<!-- Entities for element classes and mixtures ............................ -->

<!-- ................................. -->
<!-- Object-level classes ................................................. -->
<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Object-level mixtures ................................................ -->

<!-- Redeclaration placeholder ............................................ -->

%local.docinfo.char.class;">

<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Object-level mixtures ................................................ -->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix "%list.class;\t\t|%admon.class;\n%linespecific.class;\t|%synop.class;">

<table>
<thead>
<tr>
<th>Component mixture</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sidebar mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>a</td>
</tr>
<tr>
<td>Footnote mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Example mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highlights mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paragraph mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admonition mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>b</td>
<td>c</td>
<td></td>
</tr>
<tr>
<td>Figure mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table entry mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>d</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glossary def mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal notice mixture</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>f</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix "%list.class;\%admon.class;\n%linespecific.class;\%synop.class;"
<!-- %synop.class; is already included in para.char.mix because synopses used inside paragraph-like contexts are "inline" synopses -->
<!-- %formal.class; is explicitly excluded from many contexts in which paragraphs are used -->
<!ENTITY % local.para.mix "">
<!ENTITY % para.mix "%list.class; %admon.class;
%linespecific.class;
%informal.class;
%formal.class;
%local.para.mix;">

<!ENTITY % local.admon.mix "">
<!ENTITY % admon.mix "%list.class;
%linespecific.class; %synop.class;
%para.class; %informal.class;
%formal.class;Procedure|Sidebar
|Anchor|BridgeHead|Comment
|%ndxterm.class;
%local.admon.mix;">

<!ENTITY % local.figure.mix "">
<!ENTITY % figure.mix "%linespecific.class; %synop.class;
%informal.class;
%ndxterm.class;
%local.figure.mix;">

<!ENTITY % local.tabentry.mix "">
<!ENTITY % tabentry.mix "%list.class; %admon.class;
%linespecific.class;
%para.class;Graphic|MediaObject
%local.tabentry.mix;">

<!ENTITY % local.glossdef.mix "">
<!ENTITY % glossdef.mix "%list.class;
%linespecific.class; %synop.class;
%para.class; %informal.class;
%formal.class;
Comment
%ndxterm.class;
%local.glossdef.mix;">

<!ENTITY % local.legalnotice.mix "">
<!ENTITY % legalnotice.mix">"
"%list.class;\%admon.class;
|\%linespecific.class;
|\%para.class;\BlockQuote
|\%ndxterm.class;
\%local.legalnotice.mix;">
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<!-- Entities for content models .......................................... -->
<!ENTITY % formalobject.title.content "Title, TitleAbbrev?"/>
<!ENTITY % equation.content "(Graphic+|MediaObject+)"/>
<!ENTITY % inlineequation.content "(Graphic+|InlineMediaObject+)"/>
<!ENTITY % programlisting.content "CO | LineAnnotation | %para.char.mix;"/>
<!ENTITY % screen.content "CO | LineAnnotation | %para.char.mix;"/>

<!-- Effectivity attributes ............................................... -->
<!ENTITY % arch.attrib
-- Arch: Computer or chip architecture to which element applies; no default--
"ArchCDATA#IMPLIED">
<!ENTITY % conformance.attrib
--Conformance: Standards conformance characteristics--
"ConformanceNMOTOKENS#IMPLIED">

<!ENTITY % os.attrib
--OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED">

<!ENTITY % revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED">

<!ENTITY % userlevel.attrib
--UserLevel: Level of user experience to which element applies; no default--
"UserLevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib
--Vendor: Computer vendor to which element applies; no default--
"VendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;" >

<!ENTITY % id.attrib
--Id: Unique identifier of element; no default--
"IdID#IMPLIED">

<!ENTITY % idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no default--
"IdID#REQUIRED">

<!ENTITY % lang.attrib
--Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default--
"LangCDATA#IMPLIED"
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!-- FUTURE USE (V4.0): 
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new
wrapper element created to allow association of those two elements with Author name information.

.................
-->
<!ENTITY % person.ident.mix "Honorific|FirstName|Surname|Lineage|OtherName|Affiliation |AuthorBlurb|Contrib %local.person.ident.mix;">  

<!ENTITY % local.bibliocomponent.mix "">  
<!ENTITY % bibliocomponent.mix "Abbrev|Abstract|Address|ArtPageNums|Author |AuthorGroup|AuthorInitials|BiblioMisc|BiblioSet |Collab|ConfGroup|ContractNum|ContractSponsor |Copyright|CorpAuthor|CorpName|Date|Edition |Editor|InvPartNumber|ISBN|ISSN|IssueNum|OrgName |OtherCredit|PageNums|PrintHistory|ProductName |ProductNumber|PubDate|Publisher|PublisherName |PubsNumber|ReleaseInfo|RevHistory|SeriesVolNums |Subtitle|Title|TitleAbbrev|VolumeNum|CiteTitle |%person.ident.mix; |%ndxterm.class; |%local.bibliocomponent.mix;">  

<!ENTITY % biblioentry.module "INCLUDE">  
<![%biblioentry.module; [ 
<!ENTITY % local.biblioentry.attrib "">  
<!ENTITY % biblioentry.role.attrib "%role.attrib;">  
<!ENTITY % biblioentry.element "INCLUDE">  
<![ %biblioentry.element; [ 
<!ELEMENT BiblioEntry - O ((ArtHeader | BookBiblio | SeriesInfo | (%bibliocomponent.mix;))+) %ubiq.exclusion;>  
<!--end of biblioentry.element-->
]]>  

<!ENTITY % biblioentry.attlist "INCLUDE">  
<![%biblioentry.attlist; [ 
<!ATTLIST BiblioEntry %common.attrib; %biblioentry.role.attrib; %local.bibliocomponent.attrib; >  
<!--end of biblioentry.attlist-->
]]>  

The ArtHeader element will be renamed to ArticleInfo.

.................
-->
<!ENTITY % biblioentry.role.attrib "%role.attrib;">  

<!ENTITY % biblioentry.element "INCLUDE">  
<![%biblioentry.element; [ 
<!ELEMENT BiblioEntry - O ((ArtHeader | BookBiblio | SeriesInfo | (%bibliocomponent.mix;))+) %ubiq.exclusion;>  
<!--end of biblioentry.element-->
]]>  

<!ENTITY % biblioentry.attlist "INCLUDE">  
<![%biblioentry.attlist; [ 
<!ATTLIST BiblioEntry %common.attrib; %biblioentry.role.attrib; %local.bibliocomponent.attrib; >  
<!--end of biblioentry.attlist-->
]]>
SeriesInfo *may* be discarded; it has become a special case of BiblioSet.

BookBiblio will be discarded and will be removed from ArtHeader, which will be renamed to ArticleInfo.
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<!ENTITY % itermset.module "INCLUDE">
<![ %itermset.module; [
<!ENTITY % local.itermset.attrib "">
<!ENTITY % itermset.role.attrib "%role.attrib;"> 

<!ENTITY % itermset.element "INCLUDE">
<![ %itermset.element; [
<!ELEMENT ITermSet - - (IndexTerm+)>
<!--end of itermset.element-->
]]>
<!ENTITY % itermset.attlist "INCLUDE">
<![ %itermset.attlist; [
<!ATTLIST ITermSet
%common.attrib;
%itermset.role.attrib;
%local.itermset.attrib;
> 
<!--end of itermset.attlist-->
]]>

<!-- ...................................................................... -->
<!-- Compound (section-ish) elements ...................................... -->

<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; [
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; [
<!ENTITY % local.msgset.attrib "">
<!ENTITY % msgset.role.attrib "%role.attrib;"> 

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; [
<!ELEMENT MsgSet - - ((%formalobject.title.content;)?, MsgEntry+)>
<!--end of msgset.element-->
]]>
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; [
<!ATTLIST MsgSet
%common.attrib;
%msgset.roleattrib;
%local.msgset.attrib;
> 
<!--end of msgset.attlist-->
]]>
<!ENTITY % msgexplan.attlist "INCLUDE">
<![ %msgexplan.attlist; [ 
<!ATTLIST MsgExplan 
%common.attrib; 
%msgexplan.role.attrib; 
%local.msgexplan.attrib; 
> 
<![!---end of msgexplan.attlist--->]]> 
<![!---end of msgexplan.module--->]]> 
<![!---end of msgset.content.module--->]]> 

<![-- QandASet .................... ---> 
<![ENTITY % qandset.content.module "INCLUDE">
<![ %qandset.content.module; [ 
<!ENTITY % qandset.module "INCLUDE">
<![ %qandset.module; [ 
<!ENTITY % local.qandset.attrib "">
<!ENTITY % qandset.role.attrib "%role.attrib;">

<![ENTITY % qandset.element "INCLUDE">
<![ %qandset.element; [ 
<!ELEMENT QandASet - - ((%formalobject.title.content;)?, (%qandset.mix;)*, 
(QandADiv+|QandAEntry+))>
<![!---end of qandset.element--->]]> 

<![ENTITY % qandset.attlist "INCLUDE">
<![ %qandset.attlist; [ 
<![ATTLIST QandASet 
DefaultLabel(qanda|number|none) #IMPLIED 
%common.attrib; 
%qandset.role.attrib; 
%local.qandset.attrib;> 
<![!---end of qandset.attlist--->]]> 
<![!---end of qandset.module--->]]> 

<![ENTITY % qandadiv.module "INCLUDE">
<![ %qandadiv.module; [ 
<!ENTITY % local.qandadiv.attrib "">
<!ENTITY % qandadiv.role.attrib "%role.attrib;">

<![ENTITY % qandadiv.element "INCLUDE">
<![ %qandadiv.element; [ 
<!ELEMENT QandADiv - - ((%formalobject.title.content;)?, (%qandadiv.mix;)*, 
(QandADiv+|QandAEntry+))>
<![!---end of qandadiv.element--->]]>
<ENTITY % simpara.module "INCLUDE">
<! [%simpara.module; [
<!ENTITY % local.simpara.attrib "">
<!ENTITY % simpara.role.attrib "%role.attrib;">

<!ENTITY % simpara.element "INCLUDE">
<! [%simpara.element; [
<!ELEMENT SimPara - O ((%para.char.mix;)+)> 
<!--end of simpara.element-->]]>

<!ENTITY % simpara.attlist "INCLUDE">
<! [%simpara.attlist; [
<!ATTLIST SimPara
%common.attrib;
%simpara.role.attrib;
%local.simpara.attrib;
> 
<!--end of simpara.attlist-->]]>

<!ENTITY % admon.module "INCLUDE">
<! [%admon.module; [
<!ENTITY % local.admon.attrib "">
<!ENTITY % admon.role.attrib "%role.attrib;">

<!ENTITY % admon.elements "INCLUDE">
<! [%admon.elements; [
<!ELEMENT (%admon.class;) - - (Title?, (%admon.mix;)+) %admon.exclusion;>
<!--end of admon.elements-->]]>

<!ENTITY % admon.attlists "INCLUDE">
<! [%admon.attlists; [
<!ATTLIST (%admon.class;) %common.attrib;
%admon.role.attrib;
%local.admon.attrib;
> 
<!--end of admon.attlists-->]]>

<!-- Lists .............................................. -->
<!-- GlossList .................................... -->

<!ENTITY % glosslist.module "INCLUDE">
GlossTerm will be excluded from itself. Also, GlossTerm *may* be split into an element that appears in a Glossary and an element that can appear in the main text.

The Subject attribute will be renamed Keyword.
OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee

OtherTermIDREF#CONREF
%common.attrib;
%glosssee.role.attrib;
%local.glosssee.attrib;
>
<!--end of glosssee.attlist-->]]>
<!--end of glosssee.module-->]]>

<!ENTITY % glossseealso.module "INCLUDE">
<![ %glossseealso.module; [
<!ENTITY % local.glossseealso.attrib "">
<!ENTITY % glossseealso.role.attrib "%role.attrib;">

<!ENTITY % glossseealso.element "INCLUDE">
<![ %glossseealso.element; [
<!ELEMENT GlossSeeAlso - O ((%para.char.mix;)+)>]
<!--end of glossseealso.element-->]]>

<!ENTITY % glossseealso.attlist "INCLUDE">
<![ %glossseealso.attlist; [
<!ATTLIST GlossSeeAlso
--
OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso
--
OtherTermIDREF#CONREF
%common.attrib;
%glossseealso.role.attrib;
%local.glossseealso.attrib;
>
<!--end of glossseealso.attlist-->]]>
<!--end of glossseealso.module-->]]>
<!--end of glossentry.content.module-->]]>
<!-- ItemizedList and OrderedList ..... -->

<!ENTITY % itemizedlist.module "INCLUDE">
<![ %itemizedlist.module; [
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<!ENTITY % itemizedlist.element "INCLUDE">
InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b).

InheritNum

Ignore

Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)

Continuation

Restarts

Continue

Spacing: Whether the vertical space in the list should be compressed

Spacing

Normal

Compact

#IMPLIED
Columns: The number of columns the array should contain

Columns

Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results.

Type

Vert

Horiz
Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1.y1 x2.y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword
The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn)

--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![ %area.module; [ 
<!ENTITY % local.area.attrib "" >
<!ENTITY % area.role.attrib "%role.attrib;" >

<!ENTITY % area.element "INCLUDE">
<![ %area.element; [ 
<!ELEMENT Area - O EMPTY >
<!--end of area.element-->]]>

<!ENTITY % area.attlist "INCLUDE">
<![ %area.attlist; [ 
<!ATTLIST Area %label.attrib; --bug number/symbol override or initialization--
%linkends.attrib; --to any related information--
--
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units
--
--
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec
--
Units(CALSPair
| LineColumn
| LineRange
| LineColumnPair
| Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!--end of areaset.module-->]]>
<!--end of areaset.element-->]]>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!ENTITY % areaset.element "INCLUDE">
<![ %areaset.element; [
<!ELEMENT AreaSet - (Area+)>
<!--end of areaset.element-->
]]>
<!ENTITY % areaset.attlist "INCLUDE">
<![ %areaset.attlist; [
<!ATTLIST AreaSet
%label.attrib; --bug number/symbol override or initialization--
-->
Float: Whether the Figure is supposed to be rendered
where convenient (yes (1) value) or at the place it occurs
in the text (no (0) value, the default)

Float%yesorno.attvals;%no.attval;
PgWide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%figure.role.attrib;
%local.figure.attrib;
>
<![-end of figure.attlist-->]]>
<![-end of figure.module-->]]>

<!ENTITY % informalfigure.module "INCLUDE">
<![ %informalfigure.module; [ 
<!ENTITY % local.informalfigure.attrib "">
<!ENTITY % informalfigure.role.attrib "%role.attrib;">

<!ENTITY % informalfigure.element "INCLUDE">
<![ %informalfigure.element; [ 
<ELEMENT InformalFigure - - ((%figure.mix; | %link.char.class;)+)> 
<![-end of informalfigure.element-->]]>

<!ENTITY % informalfigure.attlist "INCLUDE">
<![ %informalfigure.attlist; [ 
<!ATTLIST InformalFigure 
Float: Whether the Figure is supposed to be rendered
where convenient (yes (1) value) or at the place it occurs
in the text (no (0) value, the default)

Float%yesorno.attvals;%no.attval;
PgWide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%informalfigure.role.attrib;
%local.informalfigure.attrib;
>
<![-end of informalfigure.attlist-->]]>
<![-end of informalfigure.module-->]]>

<!ENTITY % graphicco.module "INCLUDE">
<![ %graphicco.module; [ 
<!ENTITY % local.graphicco.attrib "">
Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref).

Graphic will be declared EMPTY. This change will require that end-tags be removed and that any embedded graphic content be stored outside the SGML source and pointed to from an Entityref or Fileref attribute.
InlineGraphic will be declared EMPTY. This change will require that end-tags be removed and that any embedded graphic content be stored outside the SGML source and pointed to from an Entityref or Fileref attribute.

---

<!DOCTYPE InlineGraphic [ ]>
<!ENTITY % videodata.module "INCLUDE">
<![ %videodata.module; [
<!ENTITY % local.videodata.attrib "">
<!ENTITY % videodata.role.attrib "%role.attrib;">

<!ENTITY % videodata.element "INCLUDE">
<![ %videodata.element; [
<!ELEMENT VideoData - O EMPTY>
<!--end of mediaobject.element-->]]>

<!ENTITY % videodata.attlist "INCLUDE">
<![ %videodata.attlist; [
<!ATTLIST VideoData
%common.attrib;
%objectdata.attrib;
--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED
--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED
--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED
--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED
--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED

%videodata.role.attrib;
%local.videodata.attrib;
application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED

%local.imagedata.attrib;
%imagedata.role.attrib;
>
<!--end of imagedata.attlist-->]]>
<!--end of imagedata.module-->]]>

<!ENTITY % caption.module "INCLUDE">
<![ %caption.module; [ 
<!ENTITY % local.caption.attrib ""
<!ENTITY % caption.role.attrib ">%role.attrib;">

<!ENTITY % caption.element "INCLUDE">
<![ %caption.element; [ 
<!ELEMENT Caption - - (%textobject.mix;)*>
<!--end of mediaobject.element-->]]>

<!ENTITY % caption.attlist "INCLUDE">
<![ %caption.attlist; [ 
<!ATTLIST Caption
%common.attrib;
%local.caption.attrib;
%caption.role.attrib;
>
<!--end of caption.attlist-->]]>
<!--end of caption.module-->]]>

<!ENTITY % mediaobjectco.module "INCLUDE">
<![ %mediaobjectco.module; [ 
<!ENTITY % local.mediaobjectco.attrib ""
<!ENTITY % mediaobjectco.role.attrib ">%role.attrib;">

<!ENTITY % mediaobjectco.element "INCLUDE">
<![ %mediaobjectco.element; [ 
<!ELEMENT MediaObjectCO - - (ObjectInfo?, ImageObjectCO, (ImageObjectCO[TextObject]*)*)>
<!--end of mediaobjectco.element-->]]>
<!-- Remove pgbrk exception on Row. -->
<!ENTITY % tbl.row.excep ""/>

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "((%tabentry.mix;)+ | (%para.char.mix;)+)"/>

<!-- Remove pgbrk exception on Entry. -->
<!ENTITY % tbl.entry.excep ""/>

<!-- Remove pgbrk exception on EntryTbl, but leave exclusion of itself. -->
<!ENTITY % tbl.entrytbl.excep "-(EntryTbl)"/>

<!-- Reference CALS table module. -->
<!ENTITY % calstbls PUBLIC "-//USA-DOD//DTD Table Model 951010//EN">
%calstbls;
<!--end of table.module-->
]]>

<!ENTITY % informaltable.module "INCLUDE">
<![ %informaltable.module; [

<!-- Note that InformalTable is dependent on some of the entity
declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib ""/>

<!ENTITY % informaltable.element "INCLUDE">
<![ %informaltable.element; [
  <!ELEMENT InformalTable - - (Graphic+|MediaObject+|TGroup+) %tbl.table.excep;>
  <!--end of informaltable.element-->
]]>

<!ENTITY % informaltable.attlist "INCLUDE">
<![ %informaltable.attlist; [
  <!ATTLIST InformalTable
    Frame		(Top|Bottom|Topbot|All|Sides|None)#IMPLIED
    Colsep		%yesorno.attvals;#IMPLIED
    Rowsep		%yesorno.attvals;#IMPLIED
  %tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry,
  Orient, PgWide --
  %bodyatt; -- includes Label --
]]>
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%secur; -- includes common attributes --
%local.informaltable.attrib;
>
<!--end of informaltable.attlist-->
</!

<!--end of informaltable.module-->

<!-- ......................................................................
<!-- Synopses .............................................................
<!-- Synopsis .........................
<!ENTITY % synopsis.module "INCLUDE">
<![ %synopsis.module; [
<!ENTITY % local.synopsis.attrib "">
<!ENTITY % synopsis.role.attrib "%role.attrib;">

<!ENTITY % synopsis.element "INCLUDE">
<![ %synopsis.element; [<!ELEMENT Synopsis - - ((LineAnnotation | %para.char.mix; | Graphic | MediaObject)+)>--en of synopsis.element-->]]>

<!ENTITY % synopsis.attlist "INCLUDE">
<![ %synopsis.attlist; [
<!ATTLIST Synopsis
%label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsis.role.attrib;
%local.synopsis.attrib;
>
<!--end of synopsis.attlist-->]]>

<!--ELEMENT LineAnnotation (defined in the Inlines section, below)-->--
<!--end of synopsis.module-->]]>

<!ENTITY % cmdsynopsis.content.module "INCLUDE">
<![ %cmdsynopsis.content.module; [
<!ENTITY % cmdsynopsis.module "INCLUDE">
<![ %cmdsynopsis.module; [<!ENTITY % local.cmdsynopsis.attrib "">
<!ENTITY % cmdsynopsis.role.attrib "%role.attrib;">

<!ENTITY % cmdsynopsis.element "INCLUDE">
<![ %cmdsynopsis.element; [<!ELEMENT CmdSynopsis - - ((Command | Arg | Group | SBR)+, SynopFragment*)>
Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...)

Rep(Norepeat
|Repeat)Norepeat
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<![--end of arg.attlist-->]]>
<![--end of arg.module-->]]>

--

<!ENTITY % group.module "INCLUDE" >
<![%group.module; [ 
<![--FUTURE USE (V4.0): 

The OptMult and ReqMult values for the Choice attribute on Group will be removed. Use the Rep attribute instead to indicate that the choice is repeatable.

-->

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">

<!ENTITY % group.element "INCLUDE" >
<![%group.element; [ 
<!ELEMENT Group - - ((Arg | Group | Option | SynopFragmentRef | Replaceable | SBR)+)> 
<![--end of group.element-->]]>

<!ENTITY % group.attlist "INCLUDE" >
<![%group.attlist; [ 
<!ATTLIST Group --
Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. {{g1|g2|g3}})

-- Choice(Opt
Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...)

Rep(Norepeat)

%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->

<!--end of group.module-->

<!ENTITY % sbr.module "INCLUDE">
<![ %sbr.module; [ 
<!--ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!--ENTITY % sbr.role.attrib "%role.attrib;">

<!--ENTITY % sbr.element "INCLUDE">
<![ %sbr.element; [ 
<!--ENTITY % synopfragmentref.module "INCLUDE">
<![ %synopfragmentref.module; [ 
<!--ENTITY % local.synopfragmentref.attrib "">
<!--ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!--ENTITY % synopfragmentref.element "INCLUDE">
<![ %synopfragmentref.element; [ 
<!ELEMENT SynopFragmentRef - - RCDATA >
backwards-incompatible all by itself).

```xml
<!ELEMENT FuncSynopsis - - ((FuncSynopsisInfo|FuncPrototype)+)>
..............................
-->

<!ENTITY % local.funcsynopsis.attrib "">
<!ENTITY % funcsynopsis.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsis.element "INCLUDE">
<![ %funcsynopsis.element; [ 
<!ELEMENT FuncSynopsis - - (FuncSynopsisInfo?, (FuncPrototype+ | (FuncDef, (Void | VarArgs | ParamDef+)+)), FuncSynopsisInfo?)>
<!--end of funcsynopsis.element-->]]>

<!ENTITY % funcsynopsis.attlist "INCLUDE">
<![ %funcsynopsis.attlist; [ 
<!ATTLIST FuncSynopsis
%label.attrib;
%common.attrib;
%funcsynopsis.role.attrib;
%local.funcsynopsis.attrib;
> 
<!--end of funcsynopsis.attlist-->]]>

<!ENTITY % funcsynopsisinfo.module "INCLUDE">
<![ %funcsynopsisinfo.module; [ 
<!ENTITY % local.funcsynopsisinfo.attrib "">
<!ENTITY % funcsynopsisinfo.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsisinfo.element "INCLUDE">
<![ %funcsynopsisinfo.element; [ 
<!ELEMENT FuncSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)* )>
<!--end of funcsynopsisinfo.element-->]]>

<!ENTITY % funcsynopsisinfo.attlist "INCLUDE">
<![ %funcsynopsisinfo.attlist; [ 
<!ATTLIST FuncSynopsisInfo
%linespecific.attrib;
%common.attrib;
%funcsynopsisinfo.role.attrib;
%local.funcsynopsisinfo.attrib;
> 
<!--end of funcsynopsisinfo.attlist-->]]>

<!ENTITY % funcprototype.module "INCLUDE">
```
<!ELEMENT Void - O EMPTY>
<!--end of void.element-->]]>

<!ENTITY % void.attlist "INCLUDE">
<![ %void.attlist; [ 
<!ATTLIST Void 
%common.attrib; 
%void.role.attrib; 
%local.void.attrib; >
<!--end of void.attlist-->]]>
<!--end of void.module-->]]>

<!ENTITY % varargs.module "INCLUDE">
<![ %varargs.module; [ 
<![ %local.varargs.attrib "" ]
<!ENTITY % varargs.role.attrib "%role.attrib;"> 
<!ENTITY % varargs.element "INCLUDE">
<![ %varargs.element; [ 
<!ELEMENT VarArgs - O EMPTY>
<!--end of varargs.element-->]]>
<!--end of varargs.module-->]]>

<!-- Processing assumes that only one Parameter will appear in a 
ParamDef, and that FuncParams will be used at most once, for 
providing information on the "inner parameters" for parameters that 
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![ %paramdef.module; [ 
<![ %local.paramdef.attrib "" ]
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 
<!ENTITY % paramdef.element "INCLUDE">
<![ %paramdef.element; [ 
<!ELEMENT ParamDef - - ((#PCDATA 
| Replaceable 
| Parameter
<!-- ELEMENT LineAnnotation (defined in the Inlines section, below) -->
<!-- ELEMENT Replaceable (defined in the Inlines section, below) -->
<!-- ELEMENT Function (defined in the Inlines section, below) -->
<!-- ELEMENT Parameter (defined in the Inlines section, below) -->
<!---ELEMENT funcsynopsis.content.module-->

<!- Document information entities and elements ------------------>

<!- The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!- .......................... -->
%local.address.attrib;
>
<!--end of address.attlist-->]]>
<!--end of address.module-->]]>

<!ENTITY % street.module "INCLUDE">
<![ %street.module; [
<!ENTITY % local.street.attrib "">
<!ENTITY % street.role.attrib "%role.attrib;">

<!ENTITY % street.element "INCLUDE">
<![ %street.element; [
<!ELEMENT Street - - (%docinfo.char.mix;)+>
<!--end of street.element-->]]>

<!ENTITY % street.attlist "INCLUDE">
<![ %street.attlist; [
<!ATTLIST Street
%common.attrib;
%street.role.attrib;
%local.street.attrib;
>
<!--end of street.attlist-->]]>
<!--end of street.module-->]]>

<!ENTITY % pob.module "INCLUDE">
<![ %pob.module; [
<!ENTITY % local.pob.attrib "">
<!ENTITY % pob.role.attrib "%role.attrib;">

<!ENTITY % pob.element "INCLUDE">
<![ %pob.element; [
<!ELEMENT POB - - (%docinfo.char.mix;)+>
<!--end of pob.element-->]]>

<!ENTITY % pob.attlist "INCLUDE">
<![ %pob.attlist; [
<!ATTLIST POB
%common.attrib;
%pob.role.attrib;
%local.pob.attrib;
>
<!--end of pob.attlist-->]]>
<!--end of pob.module-->]]>

<!ENTITY % postcode.module "INCLUDE">
<![ %postcode.module; [
<!ENTITY % local.postcode.attrib "">
<!ENTITY % corpname.element "INCLUDE">
<![ %corpname.element; [ 
<!ELEMENT CorpName - - ((%docinfo.char.mix;)+)>
<![end of corpname.element-->]]>
<!ENTITY % corpname.role.attrib "%role.attrib;">

<!ENTITY % corpname.attlist "INCLUDE">
<![ %corpname.attlist; [ 
<!ATTLIST CorpName
%common.attrib;
%corpname.role.attrib;
%local.corpname.attrib;
> 
<![end of corpname.attlist-->]]>
<![end of corpname.module-->]]>

<!-- Date .................................. -->

<!ENTITY % date.module "INCLUDE">
<![ %date.module; [ 
<!ENTITY % local.date.attrib "">
<!ENTITY % date.role.attrib "%role.attrib;">

<!ENTITY % date.element "INCLUDE">
<![ %date.element; [ 
<!ELEMENT Date - - (%docinfo.char.mix;)+)>
<![end of date.element-->]]>

<!ENTITY % date.attlist "INCLUDE">
<![ %date.attlist; [ 
<!ATTLIST Date
%common.attrib;
%date.role.attrib;
%local.date.attrib;
> 
<![end of date.attlist-->]]>
<![end of date.module-->]]>

<!-- Edition ................................ -->

<!ENTITY % edition.module "INCLUDE">
<![ %edition.module; [ 
<!ENTITY % local.edition.attrib "">
<!ENTITY % edition.role.attrib "%role.attrib;">

<!ENTITY % edition.element "INCLUDE">
<![ %edition.element; [ 

<ENTITY % isbn.role.attrib "%role.attrib;">  
<ENTITY % isbn.element "INCLUDE">  
<![ %isbn.element; [  
<!ELEMENT ISBN - - ((%docinfo.char.mix;)+)>  
<!--end of isbn.element-->]]>

<ENTITY % isbn.attlist "INCLUDE">  
<![ %isbn.attlist; [  
<!ATTLIST ISBN  
%common.attrib;  
%isbn.role.attrib;  
%local.isbn.attrib;  
>  
<!--end of isbn.attlist-->]]

<!-- ISSN ......................... -->  

<ENTITY % issn.module "INCLUDE">  
<![ %issn.module; [  
<!ENTITY % local.issn.attrib "">  
<!ENTITY % issn.role.attrib "%role.attrib;;">  

<ENTITY % issn.element "INCLUDE">  
<![ %issn.element; [  
<!ELEMENT ISSN - - ((%docinfo.char.mix;)+)>  
<!--end of issn.element-->]]>

<ENTITY % issn.attlist "INCLUDE">  
<![ %issn.attlist; [  
<!ATTLIST ISSN  
%common.attrib;  
%issn.role.attrib;  
%local.issn.attrib;  
>  
<!--end of issn.attlist-->]]

<!-- InvPartNumber ................ -->  

<ENTITY % invpartnumber.module "INCLUDE">  
<![ %invpartnumber.module; [  
<!ENTITY % local.invpartnumber.attrib "">  
<!ENTITY % invpartnumber.role.attrib "%role.attrib;;">  

<ENTITY % invpartnumber.element "INCLUDE">  
<![ %invpartnumber.element; [  

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\!ENTITY % local.accel.attrib "">
\!ENTITY % accel.role.attrib "%role.attrib;">

\!ENTITY % accel.element "INCLUDE">
<!ELEMENT Accel - - ((%smallcptr.char.mix;)+)>
<!!--end of accel.element-->

\!ENTITY % accel.attlist "INCLUDE">
<!ATTLIST Accel 
%common.attrib; 
%accel.role.attrib; 
%local.accel.attrib; > 
<!--end of accel.attlist-->

\!ENTITY % action.module "INCLUDE">
<!ELEMENT Action - - ((%cptr.char.mix;)+)>
<!ATTLIST Action 
%moreinfo.attrib; 
%common.attrib; 
%action.role.attrib; 
%local.action.attrib; > 
<!--end of action.element-->

\!ENTITY % action.attlist "INCLUDE">
<!ATTLIST Action 
%moreinfo.attrib; 
%common.attrib; 
%action.role.attrib; 
%local.action.attrib; > 
<!--end of action.attlist-->

\!ENTITY % application.module "INCLUDE">
<!ELEMENT Application - - ((%cptr.char.mix;)+)>
<!ATTLIST Application 
%moreinfo.attrib; 
%common.attrib; 
%application.role.attrib; 
%local.application.attrib; > 
<!--end of application.element-->

\!ENTITY % application.attlist "INCLUDE">
<!ATTLIST Application 
%moreinfo.attrib; 
%common.attrib; 
%application.role.attrib; 
%local.application.attrib; > 
<!--end of application.attlist-->

\!ENTITY % local.application.attrib "">
\!ENTITY % application.role.attrib "%role.attrib;">

------------------
Action will have its content constrained to smallcptr.char.mix.
------------------

-->
%local.guimenu.attrib;
>
<!--end of guimenu.attrib-->
<!--end of guimenu.module-->

<!ENTITY % guimenuitem.module "INCLUDE">
<![ %guimenuitem.module; [ 
<!ENTITY % local.guimenuitem.attrib "">
<!ENTITY % guimenuitem.role.attrib "%role.attrib;">

<!ENTITY % guimenuitem.element "INCLUDE">
<![ %guimenuitem.element; [ 
<!ELEMENT Guimenuitem - - ((%smallcptr.char.mix;|Accel)+)>
<!--end of guimenuitem.element-->
]
]

<!ENTITY % guimenuitem.attlist "INCLUDE">
<![ %guimenuitem.attlist; [ 
<!ATTLIST GUIMenuItem
%moreinfo.attrib;
%common.attrib;
%guimenuitem.role.attrib;
%local.guimenuitem.attrib;
>
<!--end of guimenuitem.attlist-->
<!--end of guimenuitem.module-->

<!ENTITY % guisubmenu.module "INCLUDE">
<![ %guisubmenu.module; [ 
<!ENTITY % local.guisubmenu.attrib "">
<!ENTITY % guisubmenu.role.attrib "%role.attrib;">

<!ENTITY % guisubmenu.element "INCLUDE">
<![ %guisubmenu.element; [ 
<!ELEMENT GUISubmenu - - ((%smallcptr.char.mix;|Accel)+)>
<!--end of guisubmenu.element-->
]
]

<!ENTITY % guisubmenu.attlist "INCLUDE">
<![ %guisubmenu.attlist; [ 
<!ATTLIST GUISubmenu
%moreinfo.attrib;
%common.attrib;
%guisubmenu.role.attrib;
%local.guisubmenu.attrib;
>
<!--end of guisubmenu.attlist-->
<!--end of guisubmenu.module-->

<!ENTITY % hardware.module "INCLUDE"
Hardware will have its content constrained to smallcptr.char.mix.

Interface will no longer have a Class attribute; if you want to subclass interface information, use GUIButton, GUIIcon, GUILabel, GUILabel, GUILabel, or GUISubMenu, or use a Role value on Interface. Also, Interface will have its content constrained to smallcptr.char.mix. Also, Interface will have its content constrained to smallcptr.char.mix.
<!ENTITY % keysym.module "INCLUDE">
<![ %keysym.module; [ 
<!ENTITY % local.keysym.attrib "">
<!ENTITY % keysysm.role.attrib "%role.attrib;'">

<!ENTITY % lineannotation.module "INCLUDE">
<![ %lineannotation.module; [ 
<!ENTITY % local.lineannotation.attrib "">
<!ENTITY % lineannotation.role.attrib "%role.attrib;'">

<!ENTITY % lineannotation.element "INCLUDE">
<![ %lineannotation.element; [ 
<!ELEMENT LineAnnotation - - ((%para.char.mix;)+)> 
<![!--end of lineannotation.element--]]>

<!ENTITY % lineannotation.attlist "INCLUDE">
<![ %lineannotation.attlist; [ 
<!ATTLIST LineAnnotation 
%common.attrib; 
%lineannotation.role.attrib; 
%local.lineannotation.attrib; 
> 
<![!--end of lineannotation.attlist--]]>

<!ENTITY % keysym.element "INCLUDE">
<![ %keysym.element; [ 
<!ELEMENT KeySym - - ((%smallcptr.char.mix;)+)> 
<![!--end of keysym.element--]]>

<!ENTITY % keysym.attlist "INCLUDE">
<![ %keysym.attlist; [ 
<!ATTLIST KeySym 
%common.attrib; 
%keysysm.role.attrib; 
%local.keysym.attrib; 
> 
<![!--end of keysym.attlist--]]>

<!ENTITY % keysym.module "INCLUDE">
<![ %keysym.module; [ 
<!ENTITY % local.keysym.attrib "">
<!ENTITY % keysysm.role.attrib "%role.attrib;'">

<!ENTITY % lineannotation.module "INCLUDE">
<![ %lineannotation.module; [ 
<!ENTITY % local.lineannotation.attrib "">
<!ENTITY % lineannotation.role.attrib "%role.attrib;'">

<!ENTITY % lineannotation.element "INCLUDE">
<![ %lineannotation.element; [ 
<!ELEMENT LineAnnotation - - ((%para.char.mix;)+)> 
<![!--end of lineannotation.element--]]>

<!ENTITY % lineannotation.attlist "INCLUDE">
<![ %lineannotation.attlist; [ 
<!ATTLIST LineAnnotation 
%common.attrib; 
%lineannotation.role.attrib; 
%local.lineannotation.attrib; 
>
Literal will have its content constrained to smallcptr.char.mix.

-->
Open Source Used In OnPrem2.1 2.2 31393
<!--FUTURE USE (V4.0):
......................
SystemItem will have its content constrained to smallcptr.char.mix.
......................
-->  
<!ENTITY % local.systemitem.attrib "">  
<!ENTITY % systemitem.role.attrib "%role.attrib;">  

<!ENTITY % systemitem.element "INCLUDE">  
<!%systemitem.element; [  
<!ELEMENT SystemItem - - ((%cptr.char.mix; | Acronym)+)>  
<!!--end of systemitem.element-->]]>  
<!!--FUTURE USE (V4.0):  
......................
The EnvironVar and Prompt values of Class will be eliminated;  
use the EnVar and Prompt elements new in 3.0 instead.  
......................
-->  

<!ENTITY % systemitem.attlist "INCLUDE">  
<!%systemitem.attlist; [  
<!ATTLIST SystemItem  
--  
Class: Type of system item the element names; no default  
--  
Class(Constant  
|EnvironVar  
|Macro  
|OSname  
|Prompt  
|Resource  
|SystemName)#IMPLIED  
%moreinfo.attrib;  
%common.attrib;  
%systemitem.role.attrib;  
%local.systemitem.attrib;  
>  
<!!--end of systemitem.attlist-->]]>  
<!!--end of systemitem.module-->]]>  

<!ENTITY % token.module "INCLUDE">  
<!%token.module; [  
<!ENTITY % local.token.attrib "">  
<!ENTITY % token.role.attrib "%role.attrib;">
<!ATTLIST UserInput
%moreinfo.attrib;
%common.attrib;
%userinput.role.attrib;
%local.userinput.attrib;
>
<!--end of userinput.attlist-->]]>
<!--end of userinput.module-->]]>

<!-- General words and phrases ............................................ -->

<!ENTITY % abbrev.module "INCLUDE">
<![ %abbrev.module; [
<!ENTITY % local.abbrev.attrib "">
<!ENTITY % abbrev.role.attrib "%role.attrib;">

<!ENTITY % abbrev.element "INCLUDE">
<![ %abbrev.element; [
<!ELEMENT Abbrev - - ((%word.char.mix;)+)>
<!--end of abbrev.element-->]]>

<!ENTITY % abbrev.attlist "INCLUDE">
<![ %abbrev.attlist; [
<!ATTLIST Abbrev
%common.attrib;
%abbrev.role.attrib;
%local.abbrev.attrib;
>
<!--end of abbrev.attlist-->]]>
<!--end of abbrev.module-->]]>

<!ENTITY % acronym.module "INCLUDE">
<![ %acronym.module; [
<!ENTITY % local.acronym.attrib "">
<!ENTITY % acronym.role.attrib "%role.attrib;">

<!ENTITY % acronym.element "INCLUDE">
<![ %acronym.element; [
<!ELEMENT Acronym - - ((%word.char.mix;)+) %acronym.exclusion;>
<!--end of acronym.element-->]]>

<!ENTITY % acronym.attlist "INCLUDE">
<![ %acronym.attlist; [
<!ATTLIST Acronym
%common.attrib;
%acronym.role.attrib;
%local.acronym.attrib;
>
Open Source Used In OnPrem2.1 2.2 31405
BaseForm: Provides the form of GlossTerm to be used for indexing

--

BaseFormCDATA#IMPLIED
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<![--end of glossterm.attlist-->]]>
<![--end of glossterm.module-->]]>

<![ENTITY % phrase.module "INCLUDE">
<![ %phrase.module; [ 
<![ENTITY % local.phrase.attrib "">
<![ENTITY % phrase.role.attrib "%role.attrib;">

<![ENTITY % phrase.element "INCLUDE">
<![ %phrase.element; [ 
<![ELEMENT Phrase - - (((%para.char.mix;)+)+)>
<![--end of phrase.element-->]]>

<![ENTITY % phrase.attlist "INCLUDE">
<![ %phrase.attlist; [ 
<![ATTLIST Phrase
%common.attrib;
%phrase.role.attrib;
%local.phrase.attrib;
>
<![--end of phrase.attlist-->]]>
<![--end of phrase.module-->]]>

<![ENTITY % quote.module "INCLUDE">
<![ %quote.module; [ 
<![ENTITY % local.quote.attrib "">
<![ENTITY % quote.role.attrib "%role.attrib;">

<![ENTITY % quote.element "INCLUDE">
<![ %quote.element; [ 
<![ELEMENT Quote - - (((%para.char.mix;)+)+)>
<![--end of quote.element-->]]>

<![ENTITY % quote.attlist "INCLUDE">
<![ %quote.attlist; [ 
<![ATTLIST Quote
%common.attrib;
%quote.role.attrib;
%local.quote.attrib;
>
<ENTITY % link.role.attrib "%role.attrib;">

<ENTITY % link.element "INCLUDE">
<![ %link.element; [ 
<!ELEMENT Link - - ((%para.char.mix;)+)>
<!--end of link.element-->]]>

<ENTITY % link.attlist "INCLUDE">
<![ %link.attlist; [ 
<!ATTLIST Link --
Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element
--
EndtermIDREF#IMPLIED
%linkendreq.attrib; --to linked-to object--
--
Type: Freely assignable parameter
--
TypeCDATA#IMPLIED
%common.attrib;
%link.role.attrib;
%local.link.attrib;
> 
<!--end of link.attlist-->]]>
<!--end of link.module-->]]>

<ENTITY % olink.module "INCLUDE">
<![ %olink.module; [ 
<!ENTITY % local.olink.attrib ""> 
<!ENTITY % olink.role.attrib "%role.attrib;">

<ENTITY % olink.element "INCLUDE">
<![ %olink.element; [ 
<!ELEMENT OLink - - ((%para.char.mix;)+)>
<!--end of olink.element-->]]>

<ENTITY % olink.attlist "INCLUDE">
<![ %olink.attlist; [ 
<!ATTLIST OLink --
TargetDocEnt: Name of an entity to be the target of the link
--
TargetDocEntENTITY #IMPLIED
--
LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt

...
<!ENTITY % footnoteref.role.attrib "%^role.attrib;">

<!ENTITY % footnoteref.element "INCLUDE">
<![ %footnoteref.element; [ 
<!ELEMENT FootnoteRef - O EMPTY>
<!--end of footnoteref.element-->]]>

<!ENTITY % footnoteref.attlist "INCLUDE">
<![ %footnoteref.attlist; [ 
<!ATTLIST FootnoteRef
%linkendreq.attrib; --to footnote content supplied elsewhere--
%label.attrib;
%common.attrib;
%footnoteref.role.attrib;
%local.footnoteref.attrib;
> 
<!--end of footnoteref.attlist-->]]>

<!ENTITY % xref.module "INCLUDE">
<![ %xref.module; [ 
<!ENTITY % local.xref.attrib "">
<!ENTITY % xref.role.attrib "%^role.attrib;">

<!ENTITY % xref.element "INCLUDE">
<![ %xref.element; [ 
<!ELEMENT XRef - O EMPTY>
<!--end of xref.element-->]]>

<!ENTITY % xref.attlist "INCLUDE">
<![ %xref.attlist; [ 
<!ATTLIST XRef
--
Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element
--
EndtermIDREF#IMPLIED
%linkendreq.attrib; --to linked-to object--
%common.attrib;
%xref.role.attrib;
%local.xref.attrib;
> 
<!--end of xref.attlist-->]]>

<!-- Ubiquitous elements .................................................. -->
Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs

ZoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
>
<!--end of indexterm.attlist-->]
<!--end of indexterm.module-->]

<!ENTITY % primsecter.module "INCLUDE">
<![ %primsecter.module; [ 
<!ENTITY % local.primsecter.attrib """>
<!ENTITY % primsecter.role.attrib "%role.attrib;">

<!ENTITY % primsecter.elements "INCLUDE">
<![ %primsecter.elements; ] 
<!ELEMENT (Primary | Secondary | Tertiary) - O (%ndxterm.char.mix;)+>
<!--end of primsecter.elements-->]

<!ENTITY % primsecter.attlists "INCLUDE">
<![ %primsecter.attlists; ] 
<!ENTITY % containing.attlist "INCLUDE">
<![ %containing.attlist; ] 
<!ATTLIST (Primary | Secondary | Tertiary)
SortAs: Alternate sort string for index sorting, e.g., "fourteen" for an element containing "14"

SortAsCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of containing.attlist-->]
<!--end of primsecter.attlist-->]
<!--end of primsecter.module-->]

<!ENTITY % seesealso.module "INCLUDE">
<![ %seesealso.module; [ 
<!ENTITY % local.seesealso.attrib """>
<!ENTITY % seesealso.role.attrib "%role.attrib;">

<!ENTITY % seesealso.elements "INCLUDE">
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the maintainers:

o Terry Allen, Fujitsu Software Corporation
  3055 Orchard Drive, San Jose, CA 95134
  <tallen@fsc.fujitsu.com>
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```xml
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Structured Information Standards (OASIS).

$Id: dbcent.mod,v 1.7 2000/05/18 19:44:18 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.

-->}

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.0//EN"
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook character entities module V4.1 ......................... -->
<!-- File dbcent.mod ...................................................... -->

$Id: dbcent.mod,v 1.8 2000/06/19 14:40:17 nwalsh Exp$

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<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.1//EN"
%dbcent;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release.
of DocBook.

<!-- ................................................................. -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
%ISOamsa;
<!--[end of ISOamsa.module--]>]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
%ISOamsb;
<!--[end of ISOamsb.module--]>]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
%ISOamsc;
<!--[end of ISOamsc.module--]>]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
%ISOamsn;
<!--[end of ISOamsn.module--]>]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
%ISOamso;
<!--[end of ISOamso.module--]>]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
%ISOamsr;
<!--[end of ISOamsr.module--]>]]>

<!ENTITY % ISObox.module "INCLUDE">
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk41.zip-cosi-expand-archive-tHWCf4mF/dbcent.mod

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$Id: docbook.dtd,v 1.15 2002/07/17 15:26:29 nwalsh Exp $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.2.zip-cosi-expand-archive-uEc63AwV/docbook.dtd
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DOD//DTD Table Model 951010//EN"


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<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.5 ......................... -->
<!-- File dbpoolx.mod ..................................................... -->

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Corporation, Norman Walsh, Sun Microsystems, Inc., and the
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Standards (OASIS).

$Id: dbpoolx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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information, see http://www.oasis-open.org/docbook/.

-->  

<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
publishing, and others are useful specifically for computer
documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-://OASIS//ELEMENTS DocBook XML Information Pool V4.5//EN"
dbpoolx.mod>
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">

<!ENTITY % yesorno.attvals"CDATA">

<!ENTITY % dbpool.redecl.module "IGNORE">

<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">

<!ENTITY % ndxterm.class "">
```

```xml
-->
```

```xml
<!ENTITY % local.ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```

```xml
<!ENTITY % ndxterm.class "">
```
<!ENTITY % local.compound.class "">
<!ENTITY % compound.class
"msgset|procedure|sidebar|qandaset|task
%ebnf.block.hook;
%local.compound.class;">

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class
"anchor|bridgehead|remark|highlights
%local.genobj.class;">

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class
"abstract|authorblurb|epigraph
%local.descobj.class;">

<!-- Character-level classes .............................................. -->
<!ENTITY % local.xref.char.class "">
<!ENTITY % xref.char.class
"footnoteref|xref|biblioref %local.xref.char.class;">

<!ENTITY % local.gen.char.class "">
<!ENTITY % gen.char.class
"abbrev|acronym|citation|citerefentry|citetitle|citebiblioid|emphasis
|firstterm|foreignphrase|glossterm|termdef|footnote|phrase
|orgname|quote|trademark|wordasword
|personname %local.gen.char.class;">

<!ENTITY % local.link.char.class "">
<!ENTITY % link.char.class
"link|olink|ulink %local.link.char.class;">

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!ENTITY % ebnf.inline.hook "">

<!ENTITY % local.tech.char.class "">
<!ENTITY % tech.char.class
"action|application
|classname|methodname|interfacename|exceptionname
|ooclass|ointerface|ooexception
|package
|command|computeroutput
|database|email|envar|errorcode|errormessage|errortype|errortext|filename
|function|guibutton|guicon|guilabel|guimenu|guimenuitem
|guisubmenu|hardware|interface|keycap
|keycode|keycombo|keysym|literal|code|constant|markup|medialabel
<ENTITY % local.base.char.class "">
<ENTITY % base.char.class
"anchor %local.base.char.class;">

<ENTITY % local.docinfo.char.class "">
<ENTITY % docinfo.char.class
"author|authorinitials|corpauthor|corpcredit|modespec|othercredit
|productname|productnumber|revhistory
%local.docinfo.char.class;">

<ENTITY % local.other.char.class "">
<ENTITY % other.char.class
"remark|subscript|superscript %local.other.char.class;">

<ENTITY % local.inlineobj.char.class "">
<ENTITY % inlineobj.char.class
"inlinegraphic|inlinemediaobject|inlineequation %local.inlineobj.char.class;">

<!DOCTYPE ... content models .................. -->

<!ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- Redeclaration placeholder ................................................... -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbpool.redecl.module;
<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
<!ENTITY % rdbpool "">
%rdbpool;
<!--end of dbpool.redecl.module-->]]>

<!-- Object-level mixtures .................................................. -->

<!--
list admn line synp para infm form cmpd gen desc
Component mixture X X X X X X X X X
Sidebar mixture X X X X X X a X
Footnote mixture X X X X X

-----------------------------
Open Source Used In OnPrem2.1 2.2 31432
Example mixture X X X X X
Highlights mixture X X X
Paragraph mixture X X X X
Admonition mixture X X X X X X b c
Figure mixture X X X
Table entry mixture X X X X d
Glossary def mixture X X X X e
Legal notice mixture X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->
<ENTITY % formal.exclusion "">
<ENTITY % acronym.exclusion "">
<ENTITY % beginpage.exclusion "">
<ENTITY % ndxterm.exclusion "">
<ENTITY % blockquote.exclusion "">
<ENTITY % remark.exclusion "">
<ENTITY % glossterm.exclusion "">
<ENTITY % links.exclusion "">
<!-- ]] not sgml.features -->

<!--
#PCD xref word link cptr base dnfo othr inob (synop)
para.char.mix   X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X
title.char.mix  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X
ndxterm.char.mix X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  a

cptr.char.mix   X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  X  a
smallcptr.char.mix  X  b  a
word.char.mix    X  c  X  X  X  X  a
docinfo.char.mix X  d  X  b  a

a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.
-->
<!-- Entities for attributes and attribute components ......................... -->

<!-- Effectivity attributes ..................................................... -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib
"archCDATA#IMPLIED”>

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
"conditionCDATA#IMPLIED”>

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
"conformanceNMOTOKENS#IMPLIED”>

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED”>

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED”>

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED”>

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED”>

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xml-base.attrib;
%local.common.attrib;">

<!-- Role is included explicitly on each element -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib "="
entityref ENTITY#IMPLIED
datatype CDATA#IMPLIED
format(%notation.class;) #IMPLIED
srccredit CDATA#IMPLIED
width CDATA#IMPLIED
contentwidth CDATA#IMPLIED
<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib " 
action(click
|double-click
|press
|seq
|simul
|other)#IMPLIED
otheractionCDATA#IMPLIED
%local.keyaction.attrib;" >

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA#IMPLIED">

<!-- xml:space: whitespace treatment -->

<![%sgml.features;[
<!ENTITY % xml-space.attrib "" >
]]>
<!ENTITY % xml-space.attrib "xml:space(preserve)#IMPLIED" >
<!ENTITY % linespecific.attrib "format NOTATION
(linespecific)'linespecific'
%xml-space.attrib;
linenumbering(numbered\|unnumbered) #IMPLIED
continuation(continues\|restarts)#IMPLIED
startinglinenumberCDATA#IMPLIED
languageCDATA#IMPLIED">

<!ENTITY % linkend.attrib "linkendIDREF#IMPLIED">

<!ENTITY % linkendreq.attrib "linkendIDREF#REQUIRED">

<!ENTITY % linkends.attrib "linkendsIDREFS#IMPLIED">

<!ENTITY % local.mark.attrib "">
<!ENTITY % mark.attrib "markCDATA#IMPLIED
%local.mark.attrib;">

<!ENTITY % moreinfo.attrib "moreinfo(refentry|none)'none'">

<!ENTITY % pagenum.attrib >
"pagenumCDATA#IMPLIED">

<!ENTITY % local.status.attrib "">

<!-- Status: Editorial or publication status of the element it applies to, such as "in review" or "approved for distribution" -->

<!ENTITY % status.attrib "statusCDATA#IMPLIED
%local.status.attrib;">

<!-- Width: width of the longest line in the element to which it pertains, in number of characters -->

<!ENTITY % width.attrib "widthCDATA#IMPLIED">

<!-- .............................................................. -->

<!-- Title elements ............................................... -->

<!ENTITY % title.module "INCLUDE">
<![%title.module;[
<!ENTITY % local.title.attrib "">
<!ENTITY % title.role.attrib "%role.attrib;">

<!ENTITY % title.element "INCLUDE">
<![%title.element;[
<!--doc:The text of the title of a section of a document or of a formal block-level element.-->
<!ELEMENT title %ho; (%title.char.mix;)*>
</!--end of title.element-->]]>

<!ENTITY % title.attlist "INCLUDE">
<![%title.attlist;[
<!ATTLIST title
%pagenum.attrib;
%common.attrib;
%title.role.attrib;
%local.title.attrib;
> </<!--end of title.attlist-->]]>
</<!--end of title.module-->]]>

<!ENTITY % titleabbrev.module "INCLUDE">
<![%titleabbrev.module;[
<!ENTITY % local.titleabbrev.attrib "">
<!ENTITY % titleabbrev.role.attrib "%role.attrib;">

<!ENTITY % titleabbrev.element "INCLUDE">
<![%titleabbrev.element;[
<!--doc:The text of a section of a document or of a formal block-level element.-->
<!ELEMENT title %ho; (%title.char.mix;)*>
</!--end of title.element-->]]>

<!ENTITY % titleabbrev.attlist "INCLUDE">
<![%titleabbrev.attlist;[
<!ATTLIST titleabbrev
%pagenum.attrib;
%common.attrib;
%titleabbrev.role.attrib;
%local.titleattrib;
> </<!--end of titleabbrev attlist-->]]>
</<!--end of titleabbrev module-->]]>
<ENTITY % titleabbrev.element "INCLUDE">
<![%titleabbrev.element;[
<!--doc:The abbreviation of a Title.-->
<!ELEMENT titleabbrev %ho; (%title.char.mix;)*>
<!--end of titleabbrev.element-->]]>

<ENTITY % titleabbrev.attlist "INCLUDE">
<![%titleabbrev.attlist;[
<!ATTLIST titleabbrev
%common.attrib;
%titleabbrev.role.attrib;
%local.titleabbrev.attrib;
>
<!--end of titleabbrev.attlist-->]]>

<ENTITY % subtitle.module "INCLUDE">
<![%subtitle.module;[
<!--ENTITY % local.subtitle.attrib ""-->
<!--ENTITY % subtitle.role.attrib "%role.attrib;"-->

<ENTITY % subtitle.element "INCLUDE">
<![%subtitle.element;[
<!--doc:The subtitle of a document.-->
<!ELEMENT subtitle %ho; (%title.char.mix;)*>
<!--end of subtitle.element-->]]>

<ENTITY % subtitle.attlist "INCLUDE">
<![%subtitle.attlist;[
<!ATTLIST subtitle
%common.attrib;
%subtitle.role.attrib;
%local.subtitle.attrib;
>
<!--end of subtitle.attlist-->]]>

<ENTITY % local.person.ident.mix "">
<ENTITY % person.ident.mix ""
<ENTITY % bibliomset.module "INCLUDE">
<[%bibliomset.module;]
<ENTITY % bibliomset.role.attrib "%role.attrib;">
<ENTITY % local.bibliomset.attrib "">

<ENTITY % bibliomset.element "INCLUDE">
<[%bibliomset.element;]
<!-- A "cooked" container for related bibliographic information.-->
<ELEMENT bibliomset %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)*
   %ubiq.exclusion;>
<!--end of bibliomset.element-->
]]>

<!-- Relation: Relationship of elements contained within BiblioMSet -->

<ENTITY % bibliomset.attlist "INCLUDE">
<[%bibliomset.attlist;]
<!ATTLIST bibliomset relationCDATA#IMPLIED
   %common.attrib;
   %bibliomset.role.attrib;
   %local.bibliomset.attrib;
   >
<!--end of bibliomset.attlist-->
]]>

<ENTITY % bibliomisc.module "INCLUDE">
<[%bibliomisc.module;]
<ENTITY % local.bibliomisc.attrib "">
<ENTITY % bibliomisc.role.attrib "%role.attrib;">

<ENTITY % bibliomisc.element "INCLUDE">
<[%bibliomisc.element;]
<!-- Untyped bibliographic information.-->
<ELEMENT bibliomisc %ho; (%para.char.mix;)*
<!--end of bibliomisc.element-->
]]>

<!ENTITY % bibliomisc.attlist "INCLUDE">
<[%bibliomisc.attlist;]
<!ATTLIST bibliomisc %common.attrib;
   %bibliomisc.role.attrib;
   %local.bibliomisc.attrib;
   >
<!--end of bibliomisc.attlist-->
]]>

<!-- ................................................................. -->

Open Source Used In OnPrem2.1 2.2 31450
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
</head>
<body>

<!-- Subject, Keyword, and ITermSet elements .............................. -->

<!ENTITY % subject.set.content.module "INCLUDE">
<![%subject.set.content.module;[]
<!ENTITY % subject.set.module "INCLUDE">
<![%subject.set.module;[]
<!ENTITY % local.subjectset.attrib "">
<![ENTITY % subjectset.role.attrib "%role.attrib;">

<!ENTITY % subject.set.element "INCLUDE">
<![%subject.set.element;[]
<!--doc:A set of terms describing the subject matter of a document.-->
<!ELEMENT subjectset %ho; (subject+)>  
<!--end of subjectset.element-->]]>

<!ENTITY % subject.set.ATTlist "INCLUDE">
<![%subject.set.ATTlist;[]
<!ATTLIST subjectset 
  scheme NMTOKEN #IMPLIED 
  %common.attrib; 
  %subject.set.role.attrib; 
  %local.subjectset.attrib; 
> 
<!--end of subjectset.ATTlist-->]]>
<!--end of subjectset.module-->]]>

<!ENTITY % subject.module "INCLUDE">
<![%subject.module;[]
<!ENTITY % local.subject.attrib "">
<![ENTITY % subject.role.attrib "%role.attrib;">

<!ENTITY % subject.element "INCLUDE">
<![%subject.element;[]
<!--doc:One of a group of terms describing the subject matter of a document.-->
<!ELEMENT subject %ho; (subjectterm+)>  
<!--end of subject.element-->]]>

<!ENTITY % subject.ATTlist "INCLUDE">
<![%subject.ATTlist;[]
<!ATTLIST subject 
  weight CDATA #IMPLIED 
> 
<!--end of subject.ATTlist-->]]>

</body>
</html>
<ENTITY % blockinfo.module "INCLUDE">
<![ %blockinfo.module; [ 
<!ENTITY % local.blockinfo.attrib """>
<!ENTITY % blockinfo.role.attrib "%role.attrib;">

<!ENTITY % blockinfo.element "INCLUDE">
<![ %blockinfo.element; [ 
<!--doc:Meta-information for a block element.--> 
<!ELEMENT blockinfo %ho; ((%info.class;)+) 
%beginpage.exclusion;>
<!--end of blockinfo.element-->]]>

<!ENTITY % blockinfo.attlist "INCLUDE">
<![ %blockinfo.attlist; [ 
<!ATTLIST blockinfo 
%common.attrib; 
%blockinfo.role.attrib; 
%local.blockinfo.attrib; 
> 
<!--end of blockinfo.attlist-->]]>
<![ %blockinfo.module; [ 
<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; [ 
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; [ 
<!ENTITY % local.msgset.attrib """>
<!ENTITY % msgset.role.attrib "%role.attrib;">

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; [ 
<!--doc:A detailed set of messages, usually error messages.--> 
<!ELEMENT msgset %ho; (blockinfo?, (%formalobject.title.content;)?, 
(msgentry+[simplemsgentry+])>
<!--end of msgset.element-->]]>

<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; [ 
<!ATTLIST msgset 
%common.attrib; 
%msgset.role.attrib; 
%local.msgset.attrib; 
]-->
<!ENTITY % msg.module "INCLUDE">
<![%msg.module;]
<!ENTITY % local.msg.attrib "">
<!ENTITY % msg.role.attrib "%role.attrib;">

<!ENTITY % msg.element "INCLUDE">
<![%msg.element;]
<!--doc:A message in a message set.-->
<!ELEMENT msg %ho; (title?, msgmain, (msgsub | msgrel)*)>
<!--end of msg.element-->
]

<!ENTITY % msg.attlist "INCLUDE">
<![%msg.attlist;]
<!ATTLIST msg
%common.attrib;
%msg.role.attrib;
%local.msg.attrib;
>
<!--end of msg.attlist-->
]

<!ENTITY % msgmain.module "INCLUDE">
<![%msgmain.module;]
<!ENTITY % local.msgmain.attrib "">
<!ENTITY % msgmain.role.attrib "%role.attrib;">

<!ENTITY % msgmain.element "INCLUDE">
<![%msgmain.element;]
<!--doc:The primary component of a message in a message set.-->
<!ELEMENT msgmain %ho; (title?, msgtext)>
<!--end of msgmain.element-->
]

<!ENTITY % msgmain.attlist "INCLUDE">
<![%msgmain.attlist;]
<!ATTLIST msgmain
%common.attrib;
%msgmain.role.attrib;
%local.msgmain.attrib;
>
<!--end of msgmain.attlist-->
]

<!ENTITY % msgsub.module "INCLUDE">
<![%msgsub.module;]
<!ENTITY % local.msgsub.attrib "">
<!ENTITY % msgsub.role.attrib "%role.attrib;"
<!-- MsgText (defined in the Inlines section, below)-->

<!ENTITY % msgsub.element "INCLUDE">
<![ %msgsub.element;[  
<!--doc:A subcomponent of a message in a message set.-->
<!ELEMENT msgsub %ho; (title?, msgtext)>
<!--end of msgsub.element-->]]>

<!ENTITY % msgsub.attlist "INCLUDE">
<![ %msgsub.attlist;[  
<!ATTLIST msgsub
%common.attrib;
%msgsub.role.attrib;
%local.msgsub.attrib;
> 
<!--end of msgsub.attlist-->]]>
<!--end of msgsub.module-->]]>

<!ENTITY % msgrel.module "INCLUDE">
<![ %msgrel.module;[  
<!ENTITY % local.msgrel.attrib "">
<!ENTITY % msgrel.role.attrib "%role.attrib;">

<!ENTITY % msgrel.element "INCLUDE">
<![ %msgrel.element;[  
<!--doc:A related component of a message in a message set.-->
<!ELEMENT msgrel %ho; (title?, msgtext)>
<!--end of msgrel.element-->]]>

<!ENTITY % msgrel.attlist "INCLUDE">
<![ %msgrel.attlist;[  
<!ATTLIST msgrel
%common.attrib;
%msgrel.role.attrib;
%local.msgrel.attrib;
> 
<!--end of msgrel.attlist-->]]>
<!--end of msgrel.module-->]]>

<!-- MsgText (defined in the Inlines section, below)-->

<!ENTITY % msginfo.module "INCLUDE">
<![ %msginfo.module;[  
<!ENTITY % local.msginfo.attrib "">
<!ENTITY % msginfo.role.attrib "%role.attrib;">

<!ENTITY % msginfo.element "INCLUDE">
<![ %msginfo.element;[  
<!--doc:Information about a message in a message set.-->
<!ELEMENT msginfo %ho; ((msglevel | msgorig | msgaud)*)>
<!ENTITY % local.substeps.attrib "">
<!ENTITY % substeps.role.attrib "%role.attrib;">

<!ENTITY % substeps.element "INCLUDE">  
<![%substeps.element;[  
<!--doc:A wrapper for steps that occur within steps in a procedure.-->
<!ELEMENT substeps %ho; (step+)>  
<!--end of substeps.element-->]]>

<!-- Performance: whether entire set of substeps must be performed -->
<!-- not #REQUIRED! -->

<!ENTITY % substeps.attlist "INCLUDE">  
<![%substeps.attlist;[  
<!ATTLIST substeps  
performance (optional [required]) "required"  
%common.attrib;  
%substeps.role.attrib;  
%local.substeps.attrib;  
]>  
<!--end of substeps.attlist-->]]>

<!--end of substeps.module-->]]>

<!ENTITY % stepalternatives.module "INCLUDE">  
<![%stepalternatives.module;[  
<!ENTITY % local.stepalternatives.attrib "">
<!ENTITY % stepalternatives.role.attrib "%role.attrib;">

<!ENTITY % stepalternatives.element "INCLUDE">  
<![%stepalternatives.element;[  
<!--doc:Alternative steps in a procedure.-->
<!ELEMENT stepalternatives %ho; (step+)>
<!--end of stepalternatives.element-->]]>

<!-- Performance: Whether (one of) the alternatives must be performed -->
<!-- not #REQUIRED! -->

<!ENTITY % stepalternatives.attlist "INCLUDE">  
<![%stepalternatives.attlist;[  
<!ATTLIST stepalternatives  
performance (optional [required]) "required"  
%common.attrib;  
%stepalternatives.role.attrib;  
%local.stepalternatives.attrib;  
]>  
<!--end of stepalternatives.attlist-->]]>
<!ENTITY % simpara.attlist "INCLUDE">
<![%simpara.attlist;]
<!ATTLIST simpara
%common.attrib;
%simpara.role.attrib;
%local.simpara.attrib;
>
<!--end of simpara.attlist-->]]>
<!--end of simpara.module-->]]>

<!ENTITY % admon.module "INCLUDE">
<![%admon.module;]
<!ENTITY % local.admon.attrib "">
<!ENTITY % admon.role.attrib "%role.attrib;"> 

<!ENTITY % caution.element "INCLUDE">
<![%caution.element;]
<!--doc:A note of caution.-->
<!ELEMENT caution %ho; (title?, (%admon.mix;)+)
%admon.exclusion;>
<!--end of caution.element-->]]>

<!ENTITY % caution.attlist "INCLUDE">
<![%caution.attlist;]
<!ATTLIST caution
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
<!--end of caution.attlist-->]]>

<!ENTITY % important.element "INCLUDE">
<![%important.element;]
<!--doc:An admonition set off from the text.-->
<!ELEMENT important %ho; (title?, (%admon.mix;)+)
%admon.exclusion;>
<!--end of important.element-->]]>

<!ENTITY % important.attlist "INCLUDE">
<![%important.attlist;]
<!ATTLIST important
%common.attrib;
%admon.role.attrib;
%local.admon.attrib;
>
Lists

GlossList

<!ENTITY % glosslist.module "INCLUDE">
<![glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">

<!ENTITY % glosslist.element "INCLUDE">
<![glosslist.element;]
<!--doc:A wrapper for a set of GlossEntries.-->
<ELEMENT glosslist %ho; (blockinfo?, (%formalobject.title.content;)?, glossentry+)>
<![glosslist.element--]]>

<!ENTITY % glosslist.attlist "INCLUDE">
<![glosslist.attlist;]
<!ATTLIST glosslist
%common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
>
<![glosslist.attlist--]]>
<![glosslist.module--]]>

<!ENTITY % glossentry.content.module "INCLUDE">
<![glossentry.content.module;]
<!ENTITY % glossentry.module "INCLUDE">
<![glossentry.module;]
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;">

<!ENTITY % glossentry.element "INCLUDE">
<![glossentry.element;]
<!--doc:An entry in a Glossary or GlossList.-->
<ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,
(%)ndxterm.class;)*,
revhistory?, (glosssee|glossdef+))>
<![glossentry.element--]]>

<!-- SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content -->

<!-- GlossTerm (defined in the Inlines section, below) -->

<!-- Subject: List of subjects; keywords for the definition -->

<!--doc:A cross-reference from one GlossEntry to another.-->

<!-- GlossTerm (defined in the Inlines section, below) -->

<!-- Subject: List of subjects; keywords for the definition -->

<!--doc:A cross-reference from one GlossEntry to another.-->

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<!-- Subject: List of subjects; keywords for the definition -->

<!--doc:A cross-reference from one GlossEntry to another.-->

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<!-- GlossTerm (defined in the Inlines section, below) -->

<!-- Subject: List of subjects; keywords for the definition -->

<!--doc:A cross-reference from one GlossEntry to another.-->
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<!ENTITY % itemizedlist.element "INCLUDE">
<!ENTITY % itemizedlist.element: [
<!--doc:A list in which each entry is marked with a bullet or other dingbat.-->
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)>
<!!--end of itemizedlist.element-->]]>

<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<!ENTITY % itemizedlist.attlist: [
<!ATTLIST itemizedlist
spacing(normal | compact)#IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib; >
<!!--end of itemizedlist.attlist-->]]>
<!!--end of itemizedlist.module-->]]>

<!ENTITY % orderedlist.module "INCLUDE">
<!ENTITY % orderedlist.module: [
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "">

<!ENTITY % orderedlist.element "INCLUDE">
<!ENTITY % orderedlist.element: [
<!--doc:A list in which each entry is marked with a sequentially incremented label.-->
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)>
<!!--end of orderedlist.element-->]]>

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item -->

---

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within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->

<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->

<!-- Spacing: Whether the vertical space in the list should be compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;[
<!ATTLIST orderedlist numeration(arabic
upperalpha
loweralpha
upperroman
lowerroman)#IMPLIED
inheritnum(inherit
ignore)"ignore"
continuation(continues
restarts)"restarts"
spacing(normal
compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>]]>
<![--end of orderedlist.module--]]>

<!ENTITY % listitem.module "INCLUDE">
<![%listitem.module;[
<!ENTITY % local.listitem.attrib "">
<!ENTITY % listitem.role.attrib "%role.attrib;">

<!ENTITY % listitem.element "INCLUDE">
<![%listitem.element;[
<!doctype:A wrapper for the elements of a list item.-->
<!ELEMENT listitem %ho; (%component.mix;)>
<![--end of listitem.element--]]>

<![-- Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->

<!ENTITY % listitem.attlist "INCLUDE">
<![%listitem.attlist;]
<!ATTLIST listitem override CDATA #IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
>
<!--end of listitem.attlist-->
<!--end of listitem.module-->

<!-- SegmentedList .................... -->
<!ENTITY % segmentedlist.content.module "INCLUDE">
<![%segmentedlist.content.module;]
<!ENTITY % segmentedlist.module "INCLUDE">
<![%segmentedlist.module;]
<!ENTITY % local.segmentedlist.attrib "">
<!ENTITY % segmentedlist.role.attrib "%role.attrib;">  
<!ENTITY % segmentedlist.element "INCLUDE">
<![%segmentedlist.element;]
<!--doc:A segmented list, a list of sets of elements.-->
<!ELEMENT segmentedlist %ho; (%formalobject.title.content;?,  
segtitle+, 
seglistitem+)>
<!--end of segmentedlist.element-->
<!ENTITY % segmentedlist.attlist "INCLUDE">
<![%segmentedlist.attlist;]
<!ATTLIST segmentedlist %common.attrib;
%segmentedlist.role.attrib;
%local.segmentedlist.attrib;
>
<!--end of segmentedlist.attlist-->
<!--end of segmentedlist.module-->

<!ENTITY % segtitle.module "INCLUDE">
<![%segtitle.module;]
<!ENTITY % local.segtitle.attrib "">
<!ENTITY % segtitle.role.attrib "%role.attrib;">  
<!ENTITY % segtitle.element "INCLUDE">
<![%segtitle.element;]
<!--doc:The title of an element of a list item in a segmented list.-->
<!ELEMENT segtitle %ho; (%title.char.mix;)*>
<!--end of segtitle.element-->
<!ENTITY % segtitle.attlist "INCLUDE">
<![%segtitle.attlist;]
<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![simplelist.content.module;]
<!ENTITY % simplelist.module "INCLUDE">
<![simplelist.module;]
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">

<!ENTITY % simplelist.element "INCLUDE">
<![simplelist.element;]
<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![simplelist.attlist;]
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline | vert | horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<![simplelist.attlist--->]]>
<![simplelist.module--->]]>

<!ENTITY % member.module "INCLUDE">
<![member.module;]
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">

<!ENTITY % member.element "INCLUDE">
<![member.element;]
<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![%variablelist.content.module;[
<!ENTITY % variablelist.module "INCLUDE">
<![%variablelist.module;[
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "role.attrib;">

<!ENTITY % variablelist.element "INCLUDE">
<![%variablelist.element;[
<!doc:A list in which each entry is composed of a set of one or more terms and an associated description.-->
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?, (%listpreamble.mix;)*, varlistentry+)>
<![end-of variablelist.element--]]>

<!-- TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->

<!ENTITY % variablelist.attlist "INCLUDE">
<![%variablelist.attlist;[
<!ATTLIST variablelist termlength CDATA #IMPLIED spacing(normal | compact)#IMPLIED %common.attrib; %variablelist.role.attrib; %local.variablelist.attrib; >
<![end-of variablelist.attlist--]]>
<![end-of variablelist.module--]]>
<!ENTITY % common.attrib;>
<!ENTITY % informalexample.role.attrib;>
<!ENTITY % local.informalexample.attrib;>
>
<!ENTITY % programlistingco.module "INCLUDE">
<!ENTITY % programlistingco.module;
<!ENTITY % local.programlistingco.attrib ">”>
<!ENTITY % programlistingco.role.attrib ">%role.attrib;”>

<!ENTITY % programlistingco.element "INCLUDE">
<!ENTITY % programlistingco.element;
<!ELEMENT programlistingco %ho; (areaspec, programlisting, calloutlist*)>

<!ENTITY % programlistingco.attlist "INCLUDE">
<!ENTITY % programlistingco.attlist;
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.role.attrib;
%local.programlistingco.attrib;
>
<!ENTITY % programlistingco.attlist-->
<!--end of programlistingco.attlist-->

<!ENTITY % areaspec.content.module "INCLUDE">
<!ENTITY % areaspec.content.module;
<!ENTITY % areaspec.module "INCLUDE">
<!ENTITY % local.areaspec.attrib ">”>
<!ENTITY % areaspec.role.attrib ">%role.attrib;”>

<!ENTITY % areaspec.element "INCLUDE">
<!ENTITY % areaspec.element;
<!--doc:A collection of regions in a graphic or code example.-->
<!ELEMENT areaspec %ho; ((area|areaset)+)>
<!--end of areaspec.element-->

<!-- Units: global unit of measure in which coordinates in
this spec are expressed:

- CALSPair "x1.y1 x2.y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some


number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->

<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">  
<![CDATA[
<!ATTLIST areaspec
  units		(calspair|linecolumn|linerange|linecolumnpair|other)		#IMPLIED
  otherunits	NMTOKEN		#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>]>
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">  
<![CDATA[
<!ENTITY % local.area.attrib "">  
<!ENTITY % area.role.attrib "%role.attrib;">  

<!ENTITY % area.element "INCLUDE">  
<![CDATA[  
<!ELEMENT area %ho; EMPTY>  
<!--end of area.element-->]]>
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist;[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>]
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module;[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element;[
<!--doc:A set of related areas in a graphic or code example.-->
<!ELEMENT areaset %ho; (area+)>
<!--end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist;[
<!ATTLIST areaset
%label.attrib;
units(calspair

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<!--end of inlinegraphic.module-->]]>

<!ENTITY % mediaobject.content.module "INCLUDE">
<![ %mediaobject.content.module; [ 

<!ENTITY % mediaobject.module "INCLUDE">
<![ %mediaobject.module; [ 
<!ENTITY % local.mediaobject.attrib "">
<!ENTITY % mediaobject.role.attrib "%role.attrib;">

<!ENTITY % mediaobject.element "INCLUDE">
<![ %mediaobject.element; [ 
<!doc:A displayed media object (video, audio, image, etc.).--> 
<!ELEMENT mediaobject %ho; (objectinfo?, 
    (%mediaobject.mix;)+, 
    caption?)>
<![ %mediaobject.addlist; [ 
<!ATTLIST mediaobject %common.attrib; 
%mediaobject.role.attrib; 
%local.mediaobject.attrib; 
> 
<![ %mediaobject.addlist-->]]>
<![ %mediaobject.module-->]]>

<!ENTITY % inlinemediaobject.module "INCLUDE">
<![ %inlinemediaobject.module; [ 
<!ENTITY % local.inlinemediaobject.attrib "">
<!ENTITY % inlinemediaobject.role.attrib "%role.attrib;">

<!ENTITY % inlinemediaobject.element "INCLUDE">
<![ %inlinemediaobject.element; [ 
<!doc:An inline media object (video, audio, image, and so on).--> 
<!ELEMENT inlinemediaobject %ho; (objectinfo?, 
    (%mediaobject.mix;)+)> 
<![ %inlinemediaobject.addlist-->>]]>

<!ENTITY % inlinemediaobject.addlist "INCLUDE">
<![ %inlinemediaobject.addlist; [ 
<!ATTLIST inlinemediaobject %common.attrib; 
%inlinemediaobject.role.attrib; 
%local.inlinemediaobject.attrib; 
> 
<![ %inlinemediaobject.addlist-->]]>
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!ENTITY % imagedata.element "INCLUDE">
<![ %imagedata.element; [  
<!--doc:Pointer to external image data.-->
<!ELEMENT imagedata %ho; EMPTY>
<![--end of imagedata.element-->]]> 

<![ %imagedata.attlist "INCLUDE">
<![ %imagedata.attlist; [  
<!--Width: Same as CALS reprowid (desired width)-->
<!--Depth: Same as CALS reprode (desired depth)-->
<!--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific-->
<!--Scale: Conflation of CALS hscale and vscale-->
<!--Scalefit: Same as CALS scalefit--> 
<!ATTLIST imagedata 
widthCDATA#IMPLIED 
ccontentwidthCDATA#IMPLIED 
depthCDATA#IMPLIED 
ccontentdepthCDATA#IMPLIED 
align(left 
|right 
|center)#IMPLIED 
valign(top 
|middle 
|bottom)#IMPLIED 
scaleCDATA#IMPLIED 
scalefit%yesorno.attvals; 
#IMPLIED 
%objectdata.attrib; 
%common.attrib; 
%imagedata.role.attrib; 
%local.imagedata.attrib; 
>  
<![--end of imagedata.attlist-->]]> 
<![--end of imagedata.module-->]]>

<![ %textdata.module "INCLUDE">
<![ %textdata.module; [  
<!ENTITY % local.textdata.attrib "">  
<!ENTITY % textdata.role.attrib "%role.attrib;">

<![ %textdata.element "INCLUDE">
<![ %textdata.element; [  
<!--doc:Pointer to external text data.-->
<!ELEMENT textdata %ho; EMPTY>
<!-- Equations ........................ -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+|mathphrase+))">
<!ENTITY % inlineequation.content "(alt?, (graphic+|inlinemediaobject+|mathphrase+))" >

<!--ENTITY % equation.module "INCLUDE"> 
<!ENTITY % equation.module; [ 
<!ENTITY % local.equation.attrib "" > 
<!ENTITY % equation.role.attrib "%role.attrib;" > 

<!--ENTITY % equation.element "INCLUDE" > 
<!ENTITY % equation.element; [ 
<!--doc:A displayed mathematical equation.--> 
<!ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?, 
  (informalequation | %equation.content;))> 

<!--end of equation.element-->

<!ENTITY % equation.attlist "INCLUDE" > 
<!ENTITY % equation.attlist; [ 
<!ATTLIST equation floatstyleCDATA#IMPLIED 
%label.attrib; 
%common.attrib; 
%equation.role.attrib; 
%local.equation.attrib; > 
<!--end of equation.attlist-->

<!ENTITY % informalequation.module "INCLUDE" > 
<!ENTITY % informalequation.module; [ 
<!ENTITY % local.informalequation.attrib "" > 
<!ENTITY % informalequation.role.attrib "%role.attrib;" > 

<!--ENTITY % informalequation.element "INCLUDE" > 
<!ENTITY % informalequation.element; [ 

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<![%alt.attlist;[
<!ATTLIST alt
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
>  
<!--end of alt.attlist-->]]>
<!--end of alt.module-->]]>

<!ENTITY % mathphrase.module "INCLUDE">  
<![%mathphrase.module;[
<!ENTITY % local.mathphrase.attrib "">  
<!ENTITY % mathphrase.role.attrib "%role.attrib;">  

<!ENTITY % mathphrase.element "INCLUDE">  
<![%mathphrase.element;[
<!DOC:A mathematical phrase, an expression that can be represented with ordinary text and a small amount of markup.-->
<![ELEMENT mathphrase %ho; (#PCDATA|subscript|superscript|emphasis)*]>  
<!--end of mathphrase.element-->]]>

<!ENTITY % mathphrase.attlist "INCLUDE">  
<![%mathphrase.attlist;[
<!ATTLIST mathphrase
%common.attrib;
%mathphrase.role.attrib;
%local.mathphrase.attrib;
>  
<!--end of mathphrase.attlist-->]]>
<!--end of mathphrase.module-->]]>

<!-- Tables ......................... -->

<!ENTITY % table.module "INCLUDE">  
<![%table.module;[
<!-- Choose a table model. CALS or OASIS XML Exchange -->

<!ENTITY % cals.table.module "INCLUDE">  
<![%cals.table.module;[
<!ENTITY % exchange.table.module "IGNORE">  
]]>
<!ENTITY % exchange.table.module "INCLUDE">  

<!-- Do we allow the HTML table model as well? -->
<!ENTITY % allow.html.tables "INCLUDE">  
<![%allow.html.tables;[
<!-- ====================================================== -->
align(top|bottom|left|right)#IMPLIED
%local.caption.attrib;
">
]]>
<!ENTITY % caption.attlist.content "
%common.attrib;
%caption.role.attrib;
%local.caption.attrib;
">
<!ATTLIST caption %caption.attlist.content;>
<!<!--end of caption.attlist-->
]]>
<!<!--end of caption.module-->
]]>
e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist;]
<!ATTLIST arg
choice(opt
|req
|plain)'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
> 
<!--end of arg.attlist-->
<!--end of arg.module-->

<!ENTITY % group.module "INCLUDE">
<![%group.module;]

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;"> 

<!ENTITY % group.element "INCLUDE">
<![%group.element;]
<!--doc:A group of elements in a CmdSynopsis.-->
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref
 | replaceable | sbr)+)>
<!--end of group.element-->

<!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. {g1|g2|g3}) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...) -->
<!-- Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. -->

<!-- ENTITY % paramdef.module "INCLUDE" -->
<!-- ![paramdef.module:][

<!-- ENTITY % local.paramdef.attrib "" -->
<!-- ![local.paramdef.attrib":""[>

<!-- ENTITY % paramdef.role.attrib "%role.attrib;" -->
<!-- ![paramdef.role.attrib":"%role.attrib;"[>

<!-- ENTITY % paramdef.element "INCLUDE" -->
<!-- ![paramdef.element:][

<!-- -doc:Information about a function parameter in a programming language.-->
<!-- ![ELEMENT paramdef %ho; (#PCDATA

| type

| replaceable
<!ENTITY % initializer.module "INCLUDE">
<![[%initializer.module;]
<!ENTITY % local.initializer.attrib "">
<!ENTITY % initializer.role.attrib "%role.attrib;"> 

<!ENTITY % initializer.element "INCLUDE">
<![[%initializer.element;]
<!-doc:The initializer for a FieldSynopsis.-->
<!ELEMENT initializer %ho; (%smallcptr.char.mix;)*>
</!-end of initializer.element-->]]>

<!ENTITY % initializer.attlist "INCLUDE">
<![[%initializer.attlist;]
<!ATTLIST initializer 
%common.attrib;
%initializer.role.attrib;
%local.initializer.attrib;>
</!-end of initializer.attlist-->]]>

<!ENTITY % constructorsynopsis.module "INCLUDE">
<![[%constructorsynopsis.module;]
<!ENTITY % local.constructorsynopsis.attrib "">
<!ENTITY % constructorsynopsis.role.attrib "%role.attrib;"> 

<!ENTITY % constructorsynopsis.element "INCLUDE">
<![[%constructorsynopsis.element;]
<!-doc:A syntax summary for a constructor.-->
<!ELEMENT constructorsynopsis %ho; (modifier*,
    methodname?,
    (methodparam+|void?),
    exceptionname*)>
</!-end of constructorsynopsis.element-->]]>

<!ENTITY % constructorsynopsis.attlist "INCLUDE">
<![[%constructorsynopsis.attlist;]
<!ATTLIST constructorsynopsis 
languageCDATA#IMPLIED 
%common.attrib;
%constructorsynopsis.role.attrib;
%local.constructorsynopsis.attrib;>
</!-end of constructorsynopsis.attlist-->]]>

<!-end of fieldsynopsis.attlist-->]]>
<!-end of fieldsynopsis.module-->]]>

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<!ENTITY % destructorsynopsis.module "INCLUDE">
<![%destructorsynopsis.module;]
<!ENTITY % local.destructorsynopsis.attrib "">
<!ENTITY % destructorsynopsis.role.attrib "%role.attrib;">

<!ENTITY % destructorsynopsis.element "INCLUDE">
<![%destructorsynopsis.element;]
<!!--doc:A syntax summary for a destructor.-->
<!ELEMENT destructorsynopsis %ho; (modifier*,
  methodname?,
  (methodparam+|void?),
  exceptionname*)>
<!!--end of destructorsynopsis.element-->

<!ENTITY % destructorsynopsis.attlist "INCLUDE">
<![%destructorsynopsis.attlist;]
<!ATTLIST destructorsynopsis
  language CDATA #IMPLIED
  %common.attrib;
  %destructorsynopsis.role.attrib;
  %local.destructorsynopsis.attrib;>
<!!--end of destructorsynopsis.attlist-->
<!!--end of destructorsynopsis.module-->

<!ENTITY % methodsynopsis.module "INCLUDE">
<![%methodsynopsis.module;]
<!ENTITY % local.methodsynopsis.attrib "">
<!ENTITY % methodsynopsis.role.attrib "%role.attrib;">

<!ENTITY % methodsynopsis.element "INCLUDE">
<![%methodsynopsis.element;]
<!!--doc:A syntax summary for a method.-->
<!ELEMENT methodsynopsis %ho; (modifier*,
  (type|void)?,
  methodname,
  (methodparam+|void?),
  exceptionname*,
  modifier*)>
<!!--end of methodsynopsis.element-->

<!ENTITY % methodsynopsis.attlist "INCLUDE">
<![%methodsynopsis.attlist;]
<!ATTLIST methodsynopsis
  language CDATA #IMPLIED
  %common.attrib;
  %methodsynopsis.role.attrib;>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head></head>
<body>

%common.attrib;
%methodparam.role.attrib;
%local.methodparam.attrib;
>
<![endif]-->
<![endif]-->
<![endif]-->

<!-- The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<![endif]-->

<!ENTITY % docinfo.content.module "INCLUDE">
<![endif]-->

<!ENTITY % docinfo.content.module "INCLUDE">
<![endif]-->

<!ENTITY % address.content.module "INCLUDE">
<![endif]-->
</body></html>
<!ENTITY % pob.role.attrib "%role.attrib;">

<!ENTITY % pob.element "INCLUDE">
<![%pob.element;]
<!--doc:A post office box in an address.-->
<!ELEMENT pob %ho; (%docinfo.char.mix;)*>
<!--end of pob.element-->

<!ENTITY % pob.attlist "INCLUDE">
<![%pob.attlist;]
<!ATTLIST pob
%common.attrib;
%pob.role.attrib;
%local.pob.attrib;
>
<!--end of pob.attlist-->
<!--end of pob.module-->

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!--doc:A postal code in an address.-->
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode
%common.attrib;
%postcode.role.attrib;
%local.postcode.attrib;
>
<!--end of postcode.attlist-->
<!--end of postcode.module-->

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!--doc:The name of a city in an address.-->
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!-- Email (defined in the Inlines section, below)-->

<!ENTITY % otheraddr.module "INCLUDE">
<![[%otheraddr.module;]
<!ENTITY % local.otheraddr.attrib "">
<!ENTITY % otheraddr.role.attrib "%role.attrib;">

<!ENTITY % otheraddr.element "INCLUDE">
<![[%otheraddr.element;]
<!--doc:Uncategorized information in address.-->
<!ELEMENT otheraddr %ho; (%docinfo.char.mix;)*>
<!-end of otheraddr.element--]]>

<!ENTITY % otheraddr.attlist "INCLUDE">
<![[%otheraddr.attlist;]
<!ATTLIST otheraddr
%common.attrib;  
%otheraddr.role.attrib;  
%local.otheraddr.attrib;>
<!-end of otheraddr.attlist--]]>
<!-end of otheraddr.module--]]>
<!-end of address.content.module--]]>

<!-- Affiliation ...................... -->

<!ENTITY % affiliation.content.module "INCLUDE">
<![[%affiliation.content.module;]
<!ENTITY % affiliation.module "INCLUDE">
<![[%affiliation.module;]
<!ENTITY % local.affiliation.attrib "">
<!ENTITY % affiliation.role.attrib "%role.attrib;">

<!ENTITY % affiliation.element "INCLUDE">
<![[%affiliation.element;]
<!--doc:The institutional affiliation of an individual.-->
<!ELEMENT affiliation %ho; (shortaffil?, jobtitle*, orgname?, orgdiv*, address*)>
<!-end of affiliation.element--]]>

<!ENTITY % affiliation.attlist "INCLUDE">
<![[%affiliation.attlist;]
<!ATTLIST affiliation
%common.attrib;  
%affiliation.role.attrib;  
%local.affiliation.attrib;>
<!-end of affiliation.attlist--]]>
<!ENTITY % local.orgdiv.attrib "">
<!ENTITY % orgdiv.role.attrib "%role.attrib;">

<!ENTITY % orgdiv.element "INCLUDE">
<![%orgdiv.element;]
<!--doc:A division of an organization.-->
<!ELEMENT orgdiv %ho; (%docinfo.char.mix;)*>
<!--end of orgdiv.element-->]]>

<!ENTITY % orgdiv.attlist "INCLUDE">
<![%orgdiv.attlist;]
<!ATTLIST orgdiv
%common.attrib;
%orgdiv.role.attrib;
%local.orgdiv.attrib;
>
<!--end of orgdiv.attlist-->]]>
<!--end of orgdiv.module-->

<!-- Address (defined elsewhere in this section)-->
<!--end of affiliation.content.module-->]]>

<!-- ArtPageNums ...................... -->

<!ENTITY % artpagenums.module "INCLUDE">
<![%artpagenums.module;]
<!ENTITY % local.artpagenums.attrib "">
<!ENTITY % artpagenums.role.attrib "%role.attrib;">

<!ENTITY % artpagenums.element "INCLUDE">
<![%artpagenums.element;]
<!--doc:The page numbers of an article as published.-->
<!ELEMENT artpagenums %ho; (%docinfo.char.mix;)*>
<!--end of artpagenums.element-->]]>

<!ENTITY % artpagenums.attlist "INCLUDE">
<![%artpagenums.attlist;]
<!ATTLIST artpagenums
%common.attrib;
%artpagenums.role.attrib;
%local.artpagenums.attrib;
>
<!--end of artpagenums.attlist-->]]>
<!--end of artpagenums.module-->

<!-- PersonName -->

<!ENTITY % personname.module "INCLUDE"
<!ENTITY % confsponsor.role.attrib "%role.attrib;">  

<!ENTITY % confsponsor.element "INCLUDE">  
<![-confsponsor.element;]>
<!-doc:The sponsor of a conference for which a document was written.-->
<!ELEMENT confsponsor %ho; (%docinfo.char.mix;)*>
<!-end of confsponsor.element-->]

<!ENTITY % confsponsor.attlist "INCLUDE">  
<![-confsponsor.attlist;]>
<!ATTLIST confsponsor
%common.attrib;
%confsponsor.role.attrib;
%local.confsponsor.attrib;
>
<!-end of confsponsor.attlist-->]
<!-end of confsponsor.module-->]
<!-end of confgroup.content.module-->]>

<!-- ContractNum ...................... -->

<!ENTITY % contractnum.module "INCLUDE">  
<![-contractnum.module;]>
<!ENTITY % local.contractnum.attrib "">
<!ENTITY % contractnum.role.attrib "%role.attrib;">  

<!ENTITY % contractnum.element "INCLUDE">  
<![-contractnum.element;]>
<!-doc:The contract number of a document.-->
<!ELEMENT contractnum %ho; (%docinfo.char.mix;)*>
<!-end of contractnum.element-->]

<!ENTITY % contractnum.attlist "INCLUDE">  
<![-contractnum.attlist;]>
<!ATTLIST contractnum
%common.attrib;
%contractnum.role.attrib;
%local.contractnum.attrib;
>
<!-end of contractnum.attlist-->]
<!-end of contractnum.module-->]

<!-- ContractSponsor .................. -->

<!ENTITY % contractsponsor.module "INCLUDE">  
<![-contractsponsor.module;]>
<!ENTITY % local.contractsponsor.attrib "">
<!ENTITY % contractsponsor.role.attrib "%role.attrib;">  

<!ENTITY % contractsponsor.element "INCLUDE">  
<![-contractsponsor.element;]>
<!-doc:The contract number of a document.-->
<!ELEMENT contractsponsor %ho; (%docinfo.char.mix;)*>
<!-end of contractsponsor.element-->]

<!ENTITY % contractsponsor.attlist "INCLUDE">  
<![-contractsponsor.attlist;]>
<!ATTLIST contractsponsor
%common.attrib;
%contractsponsor.role.attrib;
%local.contractsponsor.attrib;
>
<!-end of contractsponsor.attlist-->]
<!-end of contractsponsor.module-->]>
<!-- IssueNum ......................... -->

<!-- LegalNotice ...................... -->

<!-- ENTITY % legalnotice.module "INCLUDE">
copyeditor
|technicaleditor
|translator
[other]#IMPLIED
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
>
<!--end of othercredit.attlist-->
<!--(see "Personal identity elements" for %person.ident.mix;-->}
<!--end of othercredit.module-->

<!-- PageNums ......................... -->

<!ENTITY % pagenums.module "INCLUDE">
<![%pagenums.module;[%
<!ENTITY % local.pagenums.attrib "">
<!ENTITY % pagenums.role.attrib "%role.attrib;">

<!ENTITY % pagenums.element "INCLUDE">
<![%pagenums.element;[
<!--doc:The numbers of the pages in a book, for use in a bibliographic entry.-->
<!ELEMENT pagenums %ho; (%docinfo.char.mix;)*>
<!--end of pagenums.element-->

<!ENTITY % pagenums.attlist "INCLUDE">
<![%pagenums.attlist;[
<!ATTLIST pagenums
%common.attrib;
%pagenums.role.attrib;
%local.pagenums.attrib;
>
<!--end of pagenums.attlist-->
<!--end of pagenums.module-->

<!-- Personal identity elements ...... -->

<!-- These elements are used only within Author, Editor, and
OtherCredit. -->

<!ENTITY % person.ident.module "INCLUDE">
<![%person.ident.module;[%
<!ENTITY % contrib.module "INCLUDE">
<![%contrib.module;[
<!ENTITY % local.contrib.attrib "">
<!ENTITY % contrib.role.attrib "%role.attrib;">

<!ENTITY % contrib.element "INCLUDE"
<!-- ProductName ...................... -->

<!ENTITY % productname.module "INCLUDE">
<![%productname.module;]
<!ENTITY % local.productname.attrib "">
<!ENTITY % productname.role.attrib "%role.attrib;">

<!ENTITY % productname.element "INCLUDE">
<![%productname.element;]
<!--doc:The formal name of a product.-->
<!ELEMENT productname %ho; (%para.char.mix;)*>
<!-end of productname.element-->

<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % productname.attlist "INCLUDE">
<![%productname.attlist;]
<!ATTLIST productname
class(service |
trade |
registered |
copyright)'trade'
%common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<!--end of productname.attlist-->
<!-end of productname.module-->

<!-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">
<![%productnumber.module;]
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<![%productnumber.element;]
<!--doc:A number assigned to a product.-->
<!ELEMENT productnumber %ho; (%docinfo.char.mix;)*>
<!-end of productnumber.element-->

<!ENTITY % productnumber.attlist "INCLUDE">
<![%productnumber.attlist;]
<!ATTLIST productnumber
%common.attrib;
%productnumber.role.attrib;
<!ENTITY % keycap.element "INCLUDE">
<![%keycap.element;]
<!\-\-doc:The text printed on a key on a keyboard.-->
<!ELEMENT keycap %ho; (%cptr.char.mix;)*>
<!\-\-end of keycap.element-->
]]>

<!ENTITY % keycap.attlist "INCLUDE">
<![%keycap.attlist;]
<!ATTLIST keycap
function(alt
|control
|shift
|meta
|escape
|enter
|tab
|backspace
|command
|option
|space
|delete
|insert
|up
|down
|left
|right
|home
|end
|pageup
|pagedown
|other)#IMPLIED
otherfunctionCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%keycap.role.attrib;
%local.keycap.attrib;
>
<!\-\-end of keycap.attlist-->
<!\-\-end of keycap.module-->
]]>

<!--end of keycap.module-->
]]>

<!ENTITY % keycode.module "INCLUDE">
<![%keycode.module;]
<!ENTITY % local.keycode.attrib ""->
<!ENTITY % keycode.role.attrib "%role.attrib;"->

<!ENTITY % keycode.element "INCLUDE">
<![%keycode.element;]
<!--doc:The internal, frequently numeric, identifier for a key on a keyboard.-->
<!ELEMENT keycode %ho; (%smallcptr.char.mix;)*>
<!--end of keycode.element-->

<!ENTITY % keycode.atlist "INCLUDE">
<![%keycode.atlist;[
<!ATTLIST keycode
%common.attrib;
%keycode.role.attrib;
%local.keycode.attrib;
]> 
<!--end of keycode.atlist-->]]>
<!--end of keycode.module-->]]>

<!ENTITY % keycombo.module "INCLUDE">
<![%keycombo.module;[
<!ENTITY % local.keycombo.attrib "">
<!ENTITY % keycombo.role.attrib "%role.attrib;"> 

<!ENTITY % keycombo.element "INCLUDE">
<![%keycombo.element;[
<!-doc:A combination of input actions.-->
<!ELEMENT keycombo %ho; (keycap|keycombo|keysym|mousebutton)+>
<!--end of keycombo.element-->]]>

<!ENTITY % keycombo.atlist "INCLUDE">
<![%keycombo.atlist;[
<!ATTLIST keycombo
%keyaction.attrib;
%moreinfo.attrib;
%common.attrib;
%keycombo.role.attrib;
%local.keycombo.attrib;
]> 
<!--end of keycombo.atlist-->]]>
<!--end of keycombo.module-->]]>

<!ENTITY % keysym.module "INCLUDE">
<![%keysym.module;[
<!ENTITY % local.keysym.attrib "">
<!ENTITY % keysym.role.attrib "%role.attrib;"> 

<!ENTITY % keysym.element "INCLUDE">
<![%keysym.element;[
<!-doc:The symbolic name of a key on a keyboard.-->
<!ELEMENT keysym %ho; (%smallcptr.char.mix;)*>
<!--end of keysym.element-->]]>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title></title>
    <!-- Open Source Used In OnPrem2.1 2.2 31597 -->
    <!-- to GlossEntry if GlossTerm used in text -->
    <!-- BaseForm: Provides the form of GlossTerm to be used for indexing -->
    <html xmlns="http://www.w3.org/1999/xhtml">
      <head>
        <title></title>
        <!-- to GlossEntry or other explanation -->
        <!-- to GlossEntry or other explanation -->
      </head>
    </html>
</html>
<!-- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element -->
<!-- to linked-to object -->

<!ENTITY % xref.attlist "INCLUDE">
<![%xref.attlist;[
<!ATTLIST xref
dentifierIDREF#IMPLIED
xrefstyleCDATA#IMPLIED
%common.attrib;
%linkendreq.attrib;
%xref.role.attrib;
%local.xref.attrib;
>]
<!--end of xref.attlist-->
]]>
<!--end of xref.module-->

<!ENTITY % biblioref.module "INCLUDE">
<![%biblioref.module;[
<!ENTITY % local.biblioref.attrib "">
<!ENTITY % biblioref.role.attrib "%role.attrib;">

<!ENTITY % biblioref.element "INCLUDE">
<![%biblioref.element;[
<!doc:A cross reference to a bibliographic entry.-->
<!ELEMENT biblioref %ho; EMPTY>
<!--end of biblioref.element-->
]]>

<!ENTITY % biblioref.attlist "INCLUDE">
<![%biblioref.attlist;[
<!ATTLIST biblioref
dentifierIDREF#IMPLIED
xrefstyleCDATA#IMPLIED
unitsCDATA#IMPLIED
beginCDATA#IMPLIED
endCDATA#IMPLIED
%common.attrib;
%linkendreq.attrib;
%biblioref.role.attrib;
%local.biblioref.attrib;
>]
<!--end of biblioref.attlist-->
]]>
<!--end of biblioref.module-->

<!-- Ubiquitous elements .................................................. -->
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head></head>
<body>

<!-- IndexTerms appear in the text flow for generating or linking an index. -->

<!ENTITY % indexterm.content.module "INCLUDE">
<!ENTITY % indexterm.module "INCLUDE">
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;">  

<!DOCTYPE % indexterm.element "INCLUDE">  
<!ENTITY % indexterm.element: [ ]>
<!DOCTYPE % indexterm.attlist "INCLUDE">  

<!ELEMENT indexterm %ho; (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)? | see | seealso+?) | see | seealso+?) | see | seealso+?) %ubiq.exclusion;>

<!ELEMENT indexterm attlist: (scope | significance | class | startref | zone) %indexterm.role.attrib;>

<!ATTLIST indexterm
  %pagenum.attrib;
  scope {all | global | local} #IMPLIED
  significance {preferred | normal} #IMPLIED
  class {singular | endofrange | startofrange} #IMPLIED
  startref ID #IMPLIED
  zone (ID+) #IMPLIED>

<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->

<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->

<!-- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->

<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->

<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

</body></html>
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referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

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<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use. -->

This module has been developed for use with the DocBook V4.4 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.4//EN"
"htmltblx.mod">
%htmltbl;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Does not contain lang or dir because they are in %common.attribs -->

<!ENTITY % html.coreattrs
"id ID #IMPLIED
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED"
>

<!-- Does not contain lang or dir because they are in %common.attribs -->

<!ENTITY % i18n
"xml:lang NMTOKEN #IMPLIED"
<!ENTITY % events "onclick CDATA #IMPLIED
ondblclick CDATA #IMPLIED
onmousedown CDATA #IMPLIED
onmouseup CDATA #IMPLIED
onmouseover CDATA #IMPLIED
onmousemove CDATA #IMPLIED
onmouseout CDATA #IMPLIED
onkeypress CDATA #IMPLIED
onkeydown CDATA #IMPLIED
onkeyup CDATA #IMPLIED">

<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">  

<!ENTITY % cellhalign "align (left|center|right|justify|char) #IMPLIED
char CDATA #IMPLIED
charoff CDATA #IMPLIED">

<!ENTITY % cellvalign "valign (top|middle|bottom|baseline) #IMPLIED">

<!ELEMENT colgroup (col)*>
<!ELEMENT col EMPTY>
<!ELEMENT tr (th|td)+>
<!ELEMENT th (%para.char.mix; | %tabentry.mix; | table | informaltable)*>
<!ELEMENT td (%para.char.mix; | %tabentry.mix; | table | informaltable)*>

<!ATTLIST colgroup %attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST col %attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>
<!ENTITY % tables.role.attrib "%role.attrib;">

<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->

<!-- ====================================================== -->
<!--        Set up to read in the CALS model configured to merge with the XHTML table model                -->
<!-- ====================================================== -->

<!ENTITY % tables.role.attrib "%role.attrib;">
<ENTITY % bodyatt "
floatstyle CDATA #IMPLIED
rowheader(firstcol|norowheader)#IMPLIED
%label.attrib;">

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->

ENTITY % secur "
%common.attrib;
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED
%i18n;
%events;
%tables.role.attrib;">

ENTITY % common.table.attribs
"%bodyatt;
%secur;">

<!-- Content model for Table (that also allows HTML tables) -->
ENTITY % tbl.table.mdl
"((blockinfo?,
  (%formalobject.title.content;),
  (%ndxterm.class;)*,
textobject*,
  (graphic+|mediaobject+|tgroup+))
 | (caption, (col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

ENTITY % informal.tbl.table.mdl
"(textobject*,
  (graphic+|mediaobject+|tgroup+))
 | ((col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

<!-- Attributes for Table (including HTML ones) -->

<!-- N.B. rules = (none | groups | rows | cols | all) but it can't be spec'd -->
<!-- that way because 'all' already occurs in a different enumeration in -->
<!-- CALS tables (frame). -->

ENTITY % tbl.table.att
  'tabstyle CDATA #IMPLIED
tocentry %yesorno.attvals; #IMPLIED
shortentry %yesorno.attvals; #IMPLIED
orient (port|land) #IMPLIED
pgwide %yesorno.attvals; #IMPLIED
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-->

<!-- .................. ................................-->

<!-- This module contains the entity declarations for the standard notations used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.0//EN">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->
Organization for the Advancement of Structured Information Standards (OASIS).


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<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.2//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI |
| EPS | EQN | FAX | GIF | GIF87a | GIF89a |
| JPG | JPEG | IGES | PCX |
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG"
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- Change Copyright: to License:

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-dtds.spec

No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook information pool module V4.0 ................................. -->
<!-- File dbpool.mod ...................................................... -->
<!-- File dbpool.mod ...................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
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Structured Information Standards (OASIS).

$Id: dbpool.mod,v 1.14 2000/05/18 19:44:18 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.

-->
publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

o It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook Information Pool V4.0//EN">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```
<!-- ...................................................................... -->
<!-- General-purpose semantics entities ................................... -->
<!ENTITY % yesorno.attvals"NUMBER">
<!ENTITY % yes.attval "1"> <!-- never actually used -->
<!ENTITY % no.attval "0"> <!-- ...................................................................... -->
<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">
<!-- ...................................................................... -->
<!-- Entities for element classes and mixtures ............................ -->
<!-- Object-level classes ................................................. -->
<!ENTITY % local.list.class "">
```
<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.block.hook "">

<!ENTITY % local.para.class "">
<!ENTITY % para.class "FormalPara|Para|SimPara %local.para.class;">

<!ENTITY % local.informal.class "">
<!ENTITY % informal.class "Address|BlockQuote |
Graphic|GraphicCO|MediaObject|MediaObjectCO |
InformalEquation |
InformalExample |
InformalFigure |
InformalTable %local.informal.class;">

<!ENTITY % local.formal.class "">
<!ENTITY % formal.class "Equation|Example|Figure|Table %local.formal.class;">

<!ENTITY % local.compound.class "">
<!ENTITY % compound.class "">
"MsgSet|Procedure|Sidebar|QandASet
  %ebnf.block.hook;
  %local.compound.class;">

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class
  "Anchor|BridgeHead|Remark|Highlights
  %local.genobj.class;">

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class
  "Abstract|AuthorBlurb|Epigraph
  %local.descobj.class;">

<!-- Character-level classes .............................................. -->
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
  "IndexTerm %local.ndxterm.class;">

<!ENTITY % local.xref.char.class "">
<!ENTITY % xref.char.class
  "FootnoteRef|XRef %local.xref.char.class;">

<!ENTITY % local.gen.char.class "">
<!ENTITY % gen.char.class
  "Abbrev|Acronym|Citation|CiteRefEntry|CiteTitle|Emphasis
  |FirstTerm|ForeignPhrase|GlossTerm|Footnote|Phrase
  |Quote|Trademark|WordAsWord %local.gen.char.class;">

<!ENTITY % local.link.char.class "">
<!ENTITY % link.char.class
  "Link|OLink|ULink %local.link.char.class;">

<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.inline.hook "">

<!ENTITY % local.tech.char.class "">
<!ENTITY % tech.char.class
  "Action|Application
    |ClassName|MethodName|InterfaceName|ExceptionName
    |OOClass|OOInterface|OOException
    |Command|ComputerOutput
    |Database|Email|EnVar|ErrorException|ErrorName|ErrorType|Filename
    |Function|GUIButton|GUILabel|GUILabel|GUILabel|GUIMenu|GUIMenuItem
    |GUISubmenu|Hardware|Interface|KeyCap
    |KeyCode|KeyCombo|KeySym|Literal|Markup|MediaLabel

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a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;|%admon.class;
|%linespecific.class;|%synop.class;
|%para.class;|%informal.class;
|%formal.class;|%compound.class;
|%genobj.class;|%descobj.class;
|%ndxterm.class;
%local.component.mix;"> 

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix
"%list.class;|%admon.class;
|%linespecific.class;|%synop.class;
|%para.class;|%informal.class;
|%formal.class;Procedure
|%genobj.class;
|%ndxterm.class;
%local.sidebar.mix;"> 

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix
"%list.class;       |%admon.class;
|%linespecific.class;|%synop.class;
|%para.class;|%informal.class;
|%formal.class;Procedure
|%genobj.class;
|%ndxterm.class;
%local.qandaset.mix;"> 

<!ENTITY % local.revdescription.mix "">
<!ENTITY % revdescription.mix
"%list.class;|%admon.class;
|%linespecific.class;|%synop.class;
|%para.class;|%informal.class;
|%formal.class;Procedure
|%genobj.class;
|%ndxterm.class;
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
[forminlines.hook;]
local.title.char.mix;">

<!ENTITY % local пара.char.mix "">
<!ENTITY % пара.char.mix "#PCDATA
[forminlines.hook;]
local пара.char.mix;"}
<!DOCTYPE %bibliocomponent.mix (see Bibliographic section, below) -->
<!DOCTYPE %person.ident.mix (see Bibliographic section, below) -->

<!-- Entities for content models ........................................ -->

<!ENTITY % formalobject.title.content "Title, TitleAbbrev?"-->

<!-- Entities for attributes and attribute components .............. -->

<!-- Effectivity attributes .............................................. -->

<!ENTITY % arch.attrib
--Arch: Computer or chip architecture to which element applies; no
default--
"ArchCDATA#IMPLIED"-->

<!ENTITY % condition.attrib
--Condition: General-purpose effectivity attribute--
"ConditionCDATA#IMPLIED"-->

<!ENTITY % conformance.attrib
--Conformance: Standards conformance characteristics--
"ConformanceNMTOKENS#IMPLIED"-->

<!ENTITY % os.attrib
--OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED"-->

<!ENTITY % revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED"-->

<!ENTITY % security.attrib
--Security: Security classification; no default--
"SecurityCDATA#IMPLIED"-->

<!ENTITY % userlevel.attrib
--UserLevel: Level of user experience to which element applies; no
default--
"UserLevelCDATA#IMPLIED"-->

<!ENTITY % vendor.attrib
wasn't revised--
"RevisionFlag(Changed
|Added
|Deleted
|Off)#IMPLIED"

<!ENTITY % local.common.attrib "">
<!ENTITY % common.attrib
"%id.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;">
>

<!ENTITY % idreq.common.attrib
"%idreq.attrib;
%lang.attrib;
%remap.attrib;
--Role is included explicitly on each element--
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;">
>

<!-- Semi-common attributes and other attribute entities .................. -->

<!ENTITY % local.graphics.attrib "">
<!ENTITY % graphics.attrib
"--EntityRef: Name of an external entity containing the content
of the graphic--
EntityRefENTITY#IMPLIED

--FileRef: Filename, qualified by a pathname if desired,
designating the file containing the content of the graphic--
FileRef CDATA#IMPLIED

--Format: Notation of the element content, if any--
Format(%notation.class;)
#IMPLIED

--SrcCredit: Information about the source of the Graphic--
SrcCreditCDATA#IMPLIED
--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals; #IMPLIED
%local.graphics.attrib;"

<!ENTITY % local.keyaction.attrib "">
<!ENTITY % keyaction.attrib " "

--Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value--
Action(Click
|Double-Click
|Press
|Seq
|Simul
|Other)#IMPLIED

--OtherAction: User-defined key combination type--
OtherActionCDATA#IMPLIED
%local.keyaction.attrib;"
>

<!ENTITY % label.attrib "--Label: Identifying number or string; default usually the appropriate number or string autogenerated by a formatter-- "LabelCDATA#IMPLIED">

<!ENTITY % linespecific.attrib "--Format: whether element is assumed to contain significant white space--"
"FormatNOTATION
(linespecific)linespecific
   LineNumbering(Numbered|Unnumbered) #IMPLIED"/>

<!ENTITY % linkend.attrib
--Linkend: link to related information; no default--
"LinkendIDREF#IMPLIED">

<!ENTITY % linkendreq.attrib
--Linkend: required link to related information--
"LinkendIDREF#REQUIRED">

<!ENTITY % linkends.attrib
--Linkends: link to one or more sets of related information; no default--
"LinkendsIDREFS#IMPLIED">

<![IGNORE[
<!-- Declared for completeness, but never used -->
<!ENTITY % linkendsreq.attrib
--Linkends: required link to one or more sets of related information--
"LinkendsIDREFS#REQUIRED"]]>

<!ENTITY % local.mark.attrib "">
<!ENTITY % mark.attrib
"MarkCDATA#IMPLIED
%local.mark.attrib;">

<!ENTITY % moreinfo.attrib
--MoreInfo: whether element's content has an associated RefEntry--
"MoreInfo(RefEntry|None)None">

<!ENTITY % pagenum.attrib
--Pagenum: number of page on which element appears; no default--
"PagenumCDATA#IMPLIED">

<!ENTITY % local.status.attrib "">
<!ENTITY % status.attrib
--Status: Editorial or publication status of the element
   it applies to, such as "in review" or "approved for distribution"--
"StatusCDATA#IMPLIED
%local.status.attrib;">

<!ENTITY % width.attrib
--Width: width of the longest line in the element to which it
<![%subtitle.module; [
<!ENTITY % local.subtitle.attrib "">
<!ENTITY % subtitle.role.attrib "%role.attrib;"> 

<!ENTITY % subtitle.element "INCLUDE"> 
<![% subtitle.element; [ 
<!ELEMENT Subtitle - O (%title.char.mix;)+> 
<!--end of subtitle.element--> ]]>

<!ENTITY % subtitle.attlist "INCLUDE"> 
<![% subtitle.attlist; [ 
<!ATTLIST Subtitle 
%common.attrib; 
%subtitle.role.attrib; 
%local.subtitle.attrib; 
> 
<!--end of subtitle.attlist--> ]]>
<!--end of subtitle.module--> ]]> 

<!-- ...................................................................... --> 
<-- Bibliographic entities and elements .................................. -->

<!-- The bibliographic elements are typically used in the document 
hierarchy. They do not appear in content models of information 
pool elements. See also the document information elements, 
below. --> 

<!ENTITY % local.person.ident.mix "">
<!--FUTURE USE (V4.0): 
......................
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new 
wrapper element created to allow association of those two elements with 
Author name information. 
...................... -->

<ENTITY % person.ident.mix 
"Honorific|FirstName|Surname|Lineage|OtherName|Affiliation 
|AuthorBlurb|Contrib %local.person.ident.mix;;"> 

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix 
"Abbrev|Abstract|Address|ArtPageNums|Author 
|AuthorGroup|AuthorInitials|BiblioMisc|BiblioSet 
|Collab|ConfGroup|ContractNum|ContractSponsor 
|Copyright|CorpAuthor|CorpName|Date|Edition 
|Editor|InvPartNumber|ISBN|ISSN|IssueNum|OrgName 
|OtherCredit|PageNums|PrintHistory|ProductName 
|ProductNumber|PubDate|Publisher|PublisherName -->
<!ENTITY % biblioentry.module "INCLUDE">
<![ %biblioentry.module; [ 
<!ENTITY % local.bibliomixed.attrib "">
<!ENTITY % role.attrib "">
<!ENTITY % biblioentry.role.attrib "%role.attrib;">
<!ENTITY % biblioentry.element "INCLUDE">
<![ %biblioentry.element; [ 
<!--FUTURE USE (V5.0):

............... 
ArticleInfo will be dropped from BiblioEntry 
............... -->
<!ELEMENT BiblioEntry - O ((ArticleInfo
   | (%bibliocomponent.mix;))+)
  %ubiq.exclusion;>
<![--end of bibliomixed.element--]]>
<!ENTITY % biblioentry.attlist "INCLUDE">
<![ %bibliomixed.attlist; [ 
<!ATTLIST BiblioEntry
%common.attrib;
%biblioentry.role.attrib;
%local.bibliomixed.attrib;
>
<![--end of biblioentry.attlist--]]>
<![--end of bibliomixed.attlist--]]>
<!ENTITY % bibliomixed.module "INCLUDE">
<![ %bibliomixed.module; [ 
<!ENTITY % local.bibliomixed.attrib "">
<!ENTITY % role.attrib "">
<!ENTITY % biblioentry.role.attrib "%role.attrib;">
<!ENTITY % biblioentry.element "INCLUDE">
<![ %biblioentry.element; [ 
<!ELEMENT BiblioMixed - O ((%bibliocomponent.mix; | BiblioMSet | #PCDATA)+)
  %ubiq.exclusion;>
<![--end of bibliomixed.element--]]>
<!ENTITY % bibliomixed.attlist "INCLUDE">
<![ %bibliomixed.attlist; [ 
<!ATTLIST BiblioMixed
%common.attrib;
%biblioentry.role.attrib;
%local.bibliomixed.attrib;
>
<![--end of bibliomixed.attlist--]]>
<!-- Message set ...................... -->

<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; ]>
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; ]>
<!ENTITY % local.msgset.attrib "">
<!ENTITY % msgset.role.attrib "%role.attrib;">

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; ]>
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ENTITY % msgset.attlist "INCLUDED">
<!ENTITY % msgmain.attlist "INCLUDE">
<![ %msgmain.attlist; [
<!ATTLIST MsgMain
%common.attrib;
%msgmain.role.attrib;
%local.msgmain.attrib;
> 
<!--end of msgmain.attlist-->]]>
<!--end of msgmain.module-->]]>

<!ENTITY % msgsub.module "INCLUDE">
<![ %msgsub.module; [
<!ENTITY % local.msgsub.attrib "">
<!ENTITY % msgsub.role.attrib "%role.attrib;"> 

<!ENTITY % msgsub.element "INCLUDE">
<![ %msgsub.element; [
<!ELEMENT MsgSub - - (Title?, MsgText)> 
<!--end of msgsub.element-->]]>
<!--end of msgsub.module-->]]>

<!ENTITY % msgrel.module "INCLUDE">
<![ %msgrel.module; [
<!ENTITY % local.msgrel.attrib "">
<!ENTITY % msgrel.role.attrib "%role.attrib;"> 

<!ENTITY % msgrel.element "INCLUDE">
<![ %msgrel.element; [
<!ELEMENT MsgRel - - (Title?, MsgText)> 
<!--end of msgrel.element-->]]>
<!--end of msgrel.module-->]]>
<!Entity % msginfo.module "INCLUDE"
  <![ %msginfo.module; [ 
  <!Entity % local.msginfo.attrib ""
  <!Entity % msginfo.role.attrib "%role.attrib;"
  
  <!Entity % msginfo.element "INCLUDE"
  <![ %msginfo.element; [ 
  <!Element MsgInfo - - ((MsgLevel | MsgOrig | MsgAud)*)
  <!-end of msginfo.element--]]>
  <!-end of msginfo.module--]]>

<!Entity % msginfo.attlist "INCLUDE"
  <![ %msginfo.attlist; [ 
  <!AttList MsgInfo
    %common.attrib;
    %msginfo.role.attrib;
    %local.msginfo.attrib;
  ]
  <!-end of msginfo.attlist--]]>
  <!-end of msginfo.module--]]>

<!Entity % msglevel.module "INCLUDE"
  <![ %msglevel.module; [ 
  <!Entity % local.msglevel.attrib ""
  <!Entity % msglevel.role.attrib "%role.attrib;"
  
  <!Entity % msglevel.element "INCLUDE"
  <![ %msglevel.element; [ 
  <!Element MsgLevel - - ((%smallcptr.char.mix;)+)
  <!-end of msglevel.element--]]>
  <!-end of msglevel.module--]]>

<!Entity % msglevel.attlist "INCLUDE"
  <![ %msglevel.attlist; [ 
  <!AttList MsgLevel
    %common.attrib;
    %msglevel.role.attrib;
    %local.msglevel.attrib;
  ]
  <!-end of msglevel.attlist--]]>
  <!-end of msglevel.module--]]>

<!Entity % msgorig.module "INCLUDE"
  <![ %msgorig.module; [ 
  <!Entity % local.msgorig.attrib ""

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<!ENTITY % qandaentry.module "INCLUDE">
<!--end of qandaentry.module-->

<!ENTITY % question.module "INCLUDE">
<!--end of question.module-->

<!ENTITY % answer.module "INCLUDE">
<!--end of answer.module-->

<![ %qandadiv.attlist; [
<!ATTLIST QandADiv
%common.attrib;
%qandadiv.role.attrib;
%local.qandadiv.attrib;>
<!--end of qandadiv.attlist-->]]>
<!--end of qandadiv.module-->]]>

<!ENTITY % qandaentry.module "INCLUDE">
<!--end of qandaentry.module-->

<!ENTITY % local.qandaentry.attrib "">
<!ENTITY % qandaentry.role.attrib "%role.attrib;">

<!ENTITY % qandaentry.element "INCLUDE">
<!--end of qandaentry.element-->

<!ENTITY % question.module "INCLUDE">
<!--end of question.module-->

<!ENTITY % local.question.attrib "">
<!ENTITY % question.role.attrib "%role.attrib;">

<!ENTITY % question.element "INCLUDE">
<!--end of question.element-->

<!ENTITY % question.attlist "INCLUDE">
<!--end of question.attlist-->

<!ENTITY % question.attlist "INCLUDE">
<!--end of question.attlist-->

<!ENTITY % answer.module "INCLUDE">
<!ENTITY % glossentry.attlist "INCLUDE">
<![ %glossentry.attlist; [
<!ATTLIST GlossEntry
  --
  SortAs: String by which the GlossEntry is to be sorted
  (alphabetized) in lieu of its proper content
  --
  SortAs
  CDATA
  #IMPLIED
  %common.attrib;
  %glossentry.role.attrib;
  %local.glossentry.attrib;
  ]]
<!--end of glossentry.attlist-->
<!--end of glossentry.module-->

<!--FUTURE USE (V4.0):

.................
GlossTerm *may* be split into an element that appears in a
Glossary and an element that can appear in the main text.
.................
-->
<!ENTITY % glossdef.module "INCLUDE">
<![ %glossdef.module; [
<!ENTITY % local.glossdef.attrib "">
<!ENTITY % glossdef.role.attrib "%role.attrib;"> 

<!ENTITY % glossdef.element "INCLUDE">
<![ %glossdef.element; [
<!ELEMENT GlossDef - O ((%glossdef.mix;)+, GlossSeeAlso*)>
<!--end of glossdef.element-->

<!ENTITY % glossdef.attlist "INCLUDE">
<![ %glossdef.attlist; [
<!ATTLIST GlossDef
  --
  Subject: List of subjects; keywords for the definition
  --
  Subject
  CDATA
  #IMPLIED
  %common.attrib;
  %glossdef.role.attrib;
  %local.glossdef.attrib;
  ]]
<!--end of glossdef.attlist-->
<!--end of glossdef.module-->

<!ENTITY % glosssee.module "INCLUDE">
<!--end of glossentry.content.module-->

<!-- ItemizedList and OrderedList ... -->

<!ENTITY % itemizedlist.module "INCLUDE">
<![ %itemizedlist.module; [ 
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<!ENTITY % itemizedlist.element "INCLUDE">
< ![ %itemizedlist.element; [ 
<!ELEMENT ItemizedList - - ((%formalobject.title.content;)?, ListItem+)>
<!--end of itemizedlist.element--]>

<!ENTITY % itemizedlist.attlist "INCLUDE">
< ![ %itemizedlist.attlist; [ 
<!ATTLIST ItemizedList
      Spacing: Whether the vertical space in the list should be compressed
      (Normal | Compact)#IMPLIED
      Mark: Keyword, e.g., bullet, dash, checkbox, none;
      list of keywords and defaults are implementation specific
      %mark.attrib;
      %common.attrib;
      %itemizedlist.role.attrib;
      %local.itemizedlist.attrib;>

<!--end of itemizedlist.attlist--]>
<!--end of itemizedlist.module--]>

<!ENTITY % orderedlist.module "INCLUDE">
< ![ %orderedlist.module; [ 
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
< ![ %orderedlist.element; [ 
<!ELEMENT OrderedList - - ((%formalobject.title.content;)?, ListItem+)>
<!--end of orderedlist.element--]>

<!ENTITY % orderedlist.attlist "INCLUDE">
< ![ %orderedlist.attlist; [ 
<!ATTLIST OrderedList
      Spacing: Whether the vertical space in the list should be compressed
      (Normal | Compact)#IMPLIED
      Mark: Keyword, e.g., bullet, dash, checkbox, none;
      list of keywords and defaults are implementation specific
      %mark.attrib;
      %common.attrib;
      %itemizedlist.role.attrib;
      %local.itemizedlist.attrib;>

<!--end of orderedlist.attlist--]>
<!--end of orderedlist.module--]>

<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % itemizedlist.role.attrib "">
<!ENTITY % itemizedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "">
<!ENTITY % orderedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.itemizedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.role.attrib "">
<!ENTITY % local.itemizedlist.attrib "">
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<!ENTITY % local.itemizedlist.attrib "">
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<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.roleattrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.roleattrib "">
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % local.orderedlist.roleattrib " -->
Numeration: Style of ListItem numbered; default is expected to be Arabic

Numeration(Arabic | Upperalpha | Loweralpha | Upperroman | Lowerroman)#IMPLIED

InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b)--
InheritNum(Inherit | Ignore)Ignore

Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)

Continuation(Continues | Restarts)Restarts

Spacing: Whether the vertical space in the list should be compressed

Spacing(Normal | Compact)#IMPLIED
<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![ %simplelist.content.module; ]>
<!ENTITY % simplelist.module "INCLUDE">
<![ %simplelist.module; ]>
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">  

<!-- SimpleList ....................... -->

<!ENTITY % simplelist.element "INCLUDE">
<![ %simplelist.element; ]>
<!ELEMENT SimpleList - - (Member+)>  

<!ENTITY % simplelist.attlist "INCLUDE">
<![ %simplelist.attlist; ]>
<!ATTLIST SimpleList

Columns: The number of columns the array should contain
--
Columns	NUMBER#IMPLIED
--
Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results.
--
Type(Inline
|Vert
|Horiz)Vert

%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<![ %simplelist.attlist; ]>

<!ENTITY % member.module "INCLUDE">
<![ %member.module; ]>
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">  

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Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1.y1 x2.y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1.col1 line2.col2": starting and ending
points of area in "linespecific" content that starts at
first position and ends at second position (including the
beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn)

--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!-end of areaspec.attlist-->]]>
<!-end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![%area.module; [ 
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![%area.element; [ 
<!ELEMENT Area - O EMPTY>
<!-end of area.element-->]]>

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist; [ 
<!ATTLIST Area
%label.attrib; --bug number/symbol override or initialization--
%linkends.attrib; --to any related information--
--
Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of area.attlist--]]>
<!--end of area.module--]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module; [ ]
<!--END OF AREA_SET.ATTRIBUTE LIST-->
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element; [ ]
<!ELEMENT AreaSet - - (Area+)>
<!--end of areaset.element--]]>

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist; [ ]
<!!--FUTURE USE (V5.0):
......................
Coord attribute will be removed from AreaSet
......................
-->]
<!ATTLIST AreaSet
%label.attrib; --bug number/symbol override or initialization--

--
Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec
--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
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<!ENTITY % audiodata.module "INCLUDE">
<![ %audiodata.module; [
<!ENTITY % local.audiodata.attrib "">
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; [
<!ELEMENT AudioData - O EMPTY>
<![--end of audiodata.element-->]]>

<![ %audiodata.attlist "INCLUDE">
<![ %audiodata.attlist; [
<!ATTLIST AudioData
%common.attrib;
%objectdata.attrib;
%local.audiodata.attrib;
%audiodata.role.attrib;
> </--end of audiodata.attlist-->]]>
<![--end of audiodata.module-->]]>

<!ENTITY % imagedata.module "INCLUDE">
<![ %imagedata.module; [
<!ENTITY % local.imagedata.attrib "">
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!ENTITY % imagedata.element "INCLUDE">
<![ %imagedata.element; [
<!ELEMENT ImageData - O EMPTY>
<![--end of imagedata.element-->]]>

<![ %imagedata.attlist "INCLUDE">
<![ %imagedata.attlist; [
<!ATTLIST ImageData
%common.attrib;
%objectdata.attrib;
> --Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left
|Right
|Center)#IMPLIED
--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.attvals;
#IMPLIED

%local.imagedata.attrib;
%imagedata.role.attrib;
>
<!--end of imagedata.attlist-->]]>
<!--end of imagedata.module-->]]>

<!ENTITY % caption.module "INCLUDE">
<![ %caption.module; [ 
<!ENTITY % local.caption.attrib "">
<!ENTITY % caption.role.attrib "%role.attrib;"> 

<!ENTITY % caption.element "INCLUDE">
<![ %caption.element; [ 
<!ELEMENT Caption - - (%textobject.mix;)*> 
<!--end of caption.element--> ]]>

<!ENTITY % caption.attlist "INCLUDE">
<![ %caption.attlist; [ 
<!ATTLIST Caption 
%common.attrib; 
%local.caption.attrib; 
%caption.role.attrib; 
> 
<!--end of caption.attlist--> ]]>

<!ENTITY % mediaobjectco.module "INCLUDE">
<![ %mediaobjectco.module; [ 
<!ENTITY % local.mediaobjectco.attrib "">
<!ENTITY % mediaobjectco.role.attrib "%role.attrib;"> 

<!ENTITY % mediaobjectco.element "INCLUDE">
<![ %mediaobjectco.element; [ 
<!ELEMENT MediaObjectCO - - (ObjectInfo?, ImageObjectCO, 
(ImageObjectCO|TextObject)*)> 
<!--end of mediaobjectco.element--> ]]>

<!ENTITY % mediaobjectco.attlist "INCLUDE">
<![ %mediaobjectco.attlist; [ 
<!ATTLIST MediaObjectCO
%common.attrib;
%mediaobjectco.role.attrib;
%local.mediaobjectco.attrib;
>
<![-end of mediaobjectco.attlist-->]]>
<![-end of mediaobjectco.module-->]]>

<!ENTITY % imageobjectco.module "INCLUDE">
<![ %imageobjectco.module; [ 
<!ENTITY % local.imageobjectco.attrib "">
<!ENTITY % imageobjectco.role.attrib "%role.attrib;">

<!ENTITY % imageobjectco.element "INCLUDE">
<![ %imageobjectco.element; [ 
<!ELEMENT ImageObjectCO - - (AreaSpec, ImageObject, CalloutList*)>
<![ %imageobjectco.element; [ >
<![ %imageobjectco.attlist; [ >
<!-end of imageobjectco.attlist-->]]>
<!-end of imageobjectco.module-->]]>
<!-end of mediaobject.content.module-->]]>

<!- Equations ......................... -->

<!- This PE provides a mechanism for replacing equation content, -->
<!- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(Alt?, (Graphic+[MediaObject+])")">
<!ENTITY % inlineequation.content "(Alt?, (Graphic+[InlineMediaObject+])")">

<!ENTITY % equation.module "INCLUDE">
<![ %equation.module; [ ]
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;">

<!ENTITY % equation.element "INCLUDE">
<![ %equation.element; [ 
<!ELEMENT Equation - - (%formalobject.title.content;)?, (InformalEquation |
%equation.content;))>
<![ %equation.element; [ >
<![ %equation.attlist; [ >
<!-end of equation.element-->]]>

<!ENTITY % equation.attlist "INCLUDE">
<![ %equation.attlist; [ ]

---
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<!-- Tables ........................... -->

<!ENTITY % table.module "INCLUDE">
<![ %table.module; [
<!ENTITY % tables.role.attrib "%role.attrib;">
<!-- Add Label attribute to Table element (and InformalTable element). -->
<!ENTITY % bodyatt "%label.attrib;">
<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib; %tables.role.attrib;">
<!-- Remove Chart. -->
<!ENTITY % tbl.table.name "Table">
<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), (%ndxterm.class;)*, (Graphic+|MediaObject+|tgroup+))">
<!-- Exclude all DocBook tables and formal objects. -->
<!ENTITY % tbl.table.excep "-(InformalTable|%formal.class;)">
<!-- Remove pgbrk exception on Row. -->
ENTITY % tbl.row.excep "">

<!-- Allow either objects or inlines; beware of REs between elements. -->
ENTITY % tbl.entry.mdl "((%tabentry.mix;)+ | (%para.char.mix;)+)">

<!-- Remove pgbrk exception on Entry. -->
ENTITY % tbl.entry.excep "">

<!-- Remove pgbrk exception on EntryTbl, but leave exclusion of itself. -->
ENTITY % tbl.entrytbl.excep "-(entrytbl)">

<!-- Reference CALS table module. -->
ENTITY % calstbls PUBLIC "-//USA-DOD//DTD Table Model 951010//EN">
calstbls;
<!--end of table.module-->
[

ENTITY % informaltable.module "INCLUDE">
ENTITY % informaltable.element "INCLUDE">
ENTITY % informaltable.attlist "INCLUDE">
ATTLIST InformalTable
Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module.

Frame(Top
| Bottom
| Topbot
| All
| Sides
| None)#IMPLIED
Colsep%yesorno.attvals;#IMPLIED
Rowsep%yesorno.attvals;#IMPLIED
%tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry,
Orient, PgWide --
Sepchar: Character that should separate command and all top-level arguments; alternate value might be e.g., &Delta;

CmdLength: Length beyond which the presentation engine may consider a Command too long and select an alternate presentation of the Command and, or, its associated arguments.

CmdLengthCDATA#IMPLIED

Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply,
e.g. {arg}), or Plain (required to supply, e.g. arg)
--
Choice(Opt
|Req
|Plain)Opt
--
Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...)
--
Rep(Norepeat
|Repeat)Norepeat
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<![--end of arg.attlist-->]]>
<![--end of arg.module-->]]>

<!ENTITY % group.module "INCLUDE">
<![ %group.module; [

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">  

<!ENTITY % group.element "INCLUDE">
<![ %group.element; [  
  <!ELEMENT Group - - ((Arg | Group | Option | SynopFragmentRef  
 | Replaceable | SBR)+)>  
<![--end of group.element-->]]>

<!ENTITY % group.attlist "INCLUDE">
<![ %group.attlist; [ 
<!ATTLIST Group
--
Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}). Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. {{g1|g2|g3}})
--
Choice(Opt
|Req
|Plain)Opt
--
Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...)
Rep(Norepeat
|Repeat)Norepeat
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->]]>
<!--end of group.module-->]]>

<!ENTITY % sbr.module "INCLUDE”>
<![ %sbr.module; [
<!ENTITY % local.sbr.attrib "”>
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;”>

<!ENTITY % sbr.element "INCLUDE”>
<![ %sbr.element; [
<!ELEMENT SBR - O EMPTY>
<!--end of sbr.element-->]]>

<!ENTITY % sbr.attlist "INCLUDE”>
<![ %sbr.attlist; [
<!ATTLIST SBR
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->]]>
<!--end of sbr.module-->]]>

<!ENTITY % synopfragmentref.module "INCLUDE”>
<![ %synopfragmentref.module; [
<!ENTITY % local.synopfragmentref.attrib "”>
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;”>

<!ENTITY % synopfragmentref.element "INCLUDE”>
<![ %synopfragmentref.element; [
<!ELEMENT SynopFragmentRef - - RCDATA >
<!--end of synopfragmentref.element-->]]>

<!ENTITY % synopfragmentref.attlist "INCLUDE”>
<![ %synopfragmentref.attlist; [
<!ATTLIST SynopFragmentRef
%linkendreq.attrib; --to SynopFragment of complex synopsis
material for separate referencing--
%common.attrib;
%synopfragmentref.role.attrib;
%local.synopfragmentref.attrib;
%common.attrib;
%funcsynopsis.role.attrib;
%local.funcsynopsis.attrib;
>
<!--end of funcsynopsis.attlist-->
<!--end of funcsynopsis.module-->

<!ENTITY % funcsynopsisinfo.module "INCLUDE">
<![ %funcsynopsisinfo.module; ]>
<!ENTITY % local.funcsynopsisinfo.attrib "">
<!ENTITY % funcsynopsisinfo.role.attrib "%role.attrib;"> 

<!ENTITY % funcsynopsisinfo.element "INCLUDE">
<![ %funcsynopsisinfo.element; ]>
<!ELEMENT FuncSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)* )>
<!--end of funcsynopsisinfo.element-->

<!ENTITY % funcsynopsisinfo.attlist "INCLUDE">
<![ %funcsynopsisinfo.attlist; ]>
<!ATTLIST FuncSynopsisInfo
%linespecific.attrib;
%common.attrib;
%funcsynopsisinfo.role.attrib;
%local.funcsynopsisinfo.attrib;
>
<!--end of funcsynopsisinfo.attlist-->
<!--end of funcsynopsisinfo.module-->

<!ENTITY % funcprototype.module "INCLUDE">
<![ %funcprototype.module; ]>
<!ENTITY % local.funcprototype.attrib "">
<!ENTITY % funcprototype.role.attrib "%role.attrib;"> 

<!ENTITY % funcprototype.element "INCLUDE">
<![ %funcprototype.element; ]>
<!ELEMENT FuncPrototype - O (FuncDef, (Void | VarArgs | ParamDef+))>
<!--end of funcprototype.element-->

<!ENTITY % funcprototype.attlist "INCLUDE">
<![ %funcprototype.attlist; ]>
<!ATTLIST FuncPrototype
%common.attrib;
%funcprototype.role.attrib;
%local.funcprototype.attrib;
>
<!--end of funcprototype.attlist-->
<!--end of funcprototype.module-->
<!ENTITY % classsynopsisinfo.module "INCLUDE">
<![ %classsynopsisinfo.module; [ 
<!ENTITY % local.classsynopsisinfo.attrib "">
<!ENTITY % classsynopsisinfo.role.attrib "%role.attrib;">

<!ENTITY % classsynopsisinfo.element "INCLUDE">
<![ %classsynopsisinfo.element; [ 
<!ELEMENT ClassSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)* )> 
<!--end of classsynopsisinfo.element--> ]]> 
<!--end of classsynopsisinfo.module--> ]]> 

<!ENTITY % ooclass.module "INCLUDE">
<![ %ooclass.module; [ 
<!ENTITY % local.ooclass.attrib "">
<!ENTITY % ooclass.role.attrib "%role.attrib;">

<!ENTITY % ooclass.element "INCLUDE">
<![ %ooclass.element; [ 
<!ELEMENT OOClass - - (Modifier*, ClassName)> 
<!--end of ooclass.element--> ]]> 
<!--end of ooclass.module--> ]]> 

<!ENTITY % oointerface.module "INCLUDE">
<![ %oointerface.module; [ 
<!ENTITY % local.oointerface.attrib "">
<!ENTITY % oointerface.role.attrib "%role.attrib;">

<!ENTITY % oointerface.element "INCLUDE">

<!ENTITY % common.attrib "INCLUDE">
<![ %common.attrib; [ %methodparam.role.attrib; %local.methodparam.attrib; Choice(Opt | Req | Plain) "Req" Rep(Norepeat | Repeat) "Norepeat" ] ]> 
<!--end of methodparam.attlist-->
<!--end of methodparam.module-->
<!--end of classsynopsis.content.module-->

<!-- Document information entities and elements .................................. -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![ %docinfo.content.module; [ ... ] ]>

<!-- Ackno ........................................ -->

<!ENTITY % ackno.module "INCLUDE">
<![ %ackno.module; [ ... ] ]>
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">

<!ENTITY % ackno.element "INCLUDE">
<![ %ackno.element; [ ... ] ]>
<!ELEMENT Ackno - - ("%docinfo.char.mix;+)>
<!--end of ackno.element-->

<!ENTITY % ackno.attlist "INCLUDE">
<![ %ackno.attlist; [ ... ] ]>
<!ATTLIST Ackno %common.attrib; %ackno.role.attrib; %local.ackno.attrib; > 
<!--end of ackno.attlist-->
<!--end of ackno.module-->

<!-- end of classsynopsis.content.module-->

<!-- ...................................................................... -->

<!-- Document information entities and elements ........................... -->

<!-- The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!-- end of classsynopsis.content.module-->

<!-- Ackno ........................................ -->

<!ENTITY % ackno.module "INCLUDE">
<![ %ackno.module; [ ... ] ]>
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">

<!ENTITY % ackno.element "INCLUDE">
<![ %ackno.element; [ ... ] ]>
<!ELEMENT Ackno - - ("%docinfo.char.mix;+)>
<!--end of ackno.element-->

<!ENTITY % ackno.attlist "INCLUDE">
<![ %ackno.attlist; [ ... ] ]>
<!ATTLIST Ackno %common.attrib; %ackno.role.attrib; %local.ackno.attrib; > 
<!--end of ackno.attlist-->
<!--end of ackno.module-->
<!ENTITY % otheraddr.role.attrib "%role.attrib;"> 

<!ENTITY % otheraddr.element "INCLUDE"> 
<!ENTITY %otheraddr.element; [ 
<!ELEMENT OtherAddr - - ((%docinfo.char.mix;)+)> 
<!!--end of otheraddr.element-->]]>

<!ENTITY % otheraddr.attlist "INCLUDE"> 
<!ENTITY %otheraddr.attlist; [ 
<!ATTLIST OtherAddr 
%common.attrib; 
%otheraddr.role.attrib; 
%local.otheraddr.attrib; > 
<!!--end of otheraddr.attlist-->]]>

<!ENTITY % shortaffil.module "INCLUDE"> 
<!ENTITY %shortaffil.module; [ 
<!ENTITY % local.shortaffil.attrib ""> 
<!ENTITY % shortaffil.role.attrib "%role.attrib;"> 

<!ENTITY % affiliation.content.module "INCLUDE"> 
<!ENTITY %affiliation.content.module; [ 
<!ENTITY % affiliation.module "INCLUDE"> 
<!ENTITY %affiliation.module; [ 
<!ENTITY % local.affiliation.attrib ""> 
<!ENTITY % affiliation.role.attrib "%role.attrib;"> 

<!ENTITY % affiliation.element "INCLUDE"> 
<!ENTITY %affiliation.element; [ 
<!ELEMENT Affiliation - - (ShortAffil?, JobTitle*, OrgName?, OrgDiv*, Address*)> 
<!!--end of affiliation.element-->]]>

<!ENTITY % affiliation.attlist "INCLUDE"> 
<!ENTITY %affiliation.attlist; [ 
<!ATTLIST Affiliation 
%common.attrib; 
%affiliation.role.attrib; 
%local.affiliation.attrib; > 
<!!--end of affiliation.attlist-->]]>

<!ENTITY % shortaffil.module "INCLUDE"> 
<!ENTITY %shortaffil.module; [ 
<!ENTITY % local.shortaffil.attrib ""> 
<!ENTITY % shortaffil.role.attrib "%role.attrib;">
Application: Type of action required for completion
of the links to which the ModeSpec is relevant (e.g., retrieval query)
--
ApplicationNOTATION
(%notation.class;)
%common.attrib;
%modespec.role.attrib;
%local.modespec.attrib;
>
<!--end of modespec.attlist-->]]>
<!--end of modespec.module-->]]>

<!-- OrgName ..................... -->

<!ENTITY % orgname.module "INCLUDE">
<![ %orgname.module; ]>
<!ENTITY % local.orgname.attrib "">
<!ENTITY % orgname.role.attrib "%role.attrib;">  

<!ENTITY % orgname.element "INCLUDE">
<![ %orgname.element; ]>
<!ELEMENT OrgName - - (%docinfo.char.mix;)+>
<!--end of orgname.element-->]]>

<!ENTITY % orgname.attlist "INCLUDE">
<![ %orgname.attlist; ]>
<!ATTLIST OrgName 
%common.attrib;
%orgname.role.attrib;
%local.orgname.attrib;
>
<!--end of orgname.attlist-->]]>
<!--end of orgname.module-->]]>

<!-- OtherCredit .................. -->

<!ENTITY % othercredit.module "INCLUDE">
<![ %othercredit.module; ]>
<!--FUTURE USE (V4.0):

AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new wrapper element created to allow association of those two elements with OtherCredit name information.

-->
<!ENTITY % local.othercredit.attrib "">
<!ENTITY % othercredit.role.attrib "%role.attrib;">
<ENTITY % othercredit.element "INCLUDE">
<![ %othercredit.element; [ 
<!ELEMENT OtherCredit - - ((%person.ident.mix;)+)>
<!--end of othercredit.element--]]>

<ENTITY % othercredit.attlist "INCLUDE">
<![ %othercredit.attlist; [ 
<!ATTLIST OtherCredit 
%common.attrib; 
%othercredit.role.attrib; 
%local.othercredit.attrib; 
> 
<!--end of othercredit.attlist--]]>
<!-(see "Personal identity elements" for %person.ident.mix;-->
<!--end of othercredit.module--]]>

<!-- PageNums ......................... -->

<ENTITY % pagenums.module "INCLUDE">
<![ %pagenums.module; [ 
<![ ENTITY % local.pagenums.attrib "">
<![ ENTITY % pagenums.role.attrib "%role.attrib;">

<ENTITY % pagenums.element "INCLUDE">
<![ %pagenums.element; [ 
<!ELEMENT PageNums - - (%docinfo.char.mix;)+>
<![--end of pagenums.element--]]>

<ENTITY % pagenums.attlist "INCLUDE">
<![ %pagenums.attlist; [ 
<![ATTLIST PageNums 
%common.attrib; 
%pagenums.role.attrib; 
%local.pagenums.attrib; 
> 
<![--end of pagenums.attlist--]]>
<![--end of pagenums.module--]]>

<!-- Personal identity elements ....... -->

<![-- These elements are used only within Author, Editor, and 
OtherCredit. -->

<ENTITY % person.ident.module "INCLUDE">
<![ %person.ident.module; [ 
<![--FUTURE USE (V4.0): 
......................... 
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and
a new wrapper element created to allow association of those two elements
with Contrib name information.

...............->
<!ENTITY % contrib.module "INCLUDE">
<![[ %contrib.module; [ 
<!ENTITY % local.contrib.attrib "">
<!ENTITY % contrib.role.attrib "%role.attrib;">

<!ENTITY % contrib.element "INCLUDE">
<![[ %contrib.element; [ 
<!ELEMENT Contrib - - ((%docinfo.char.mix;)+)>
<!!---end of contrib.element-->]]>

<!ENTITY % contrib.attlist "INCLUDE">
<![[ %contrib.attlist; [ 
<!ATTLIST Contrib
%common.attrib;
%contrib.role.attrib;
%local.contrib.attrib;
> 
<!!---end of contrib.attlist-->]]>
<!!---end of contrib.module-->]]>

<!ENTITY % firstname.module "INCLUDE">
<![[ %firstname.module; [ 
<!ENTITY % local.firstname.attrib "">
<!ENTITY % firstname.role.attrib "%role.attrib;">

<!ENTITY % firstname.element "INCLUDE">
<![[ %firstname.element; [ 
<!ELEMENT FirstName - - ((%docinfo.char.mix;)+)>
<!!---end of FirstName-->]]>

<!ENTITY % firstname.attlist "INCLUDE">
<![[ %firstname.attlist; [ 
<!ATTLIST FirstName
%common.attrib;
%firstname.role.attrib;
%local.firstname.attrib;
> 
<!!---end of firstname.attlist-->]]>
<!!---end of firstname.module-->]]>

<!ENTITY % honorific.module "INCLUDE">
<![[ %honorific.module; [ 
<!ENTITY % local.honorific.attrib "">
<!ENTITY % honorific.role.attrib "%role.attrib;">

<!ENTITY % honorific.element "INCLUDE">
<![[ %honorific.element; [ 
<!ELEMENT Honorific - - ((%docinfo.char.mix;)+)>
<!!---end of Honorific-->]]>

<!ENTITY % honorific.attlist "INCLUDE">
<![[ %honorific.attlist; [ 
<!ATTLIST Honorific
%common.attrib;
%honorific.role.attrib;
%local.honorific.attrib;
> 
<!!---end of honorific.attlist-->]]>
<!!---end of honorific.module-->]]>
<!-- ProductName ...................... -->

<!ENTITY % productname.module "INCLUDE">
<![ %productname.module; [ 
<!ENTITY % local.productname.attrib """>
<!ENTITY % productname.role.attrib "%role.attrib;">

<!ENTITY % productname.element "INCLUDE">
<![ %productname.element; [ 
<!ELEMENT ProductName - - ((%para.char.mix;)+)>
<!--end of productname.element--> ]>

<!ENTITY % productname.attlist "INCLUDE">
<![ %productname.attlist; ]>
<!ATTLIST ProductName
--
Class: More precisely identifies the item the element names
--
Class(Service
|Trade
|Registered
|Copyright)Trade
%common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<!--end of productname.attlist--> ]>
<!--end of productname.module--> ]>

<!-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">
<![ %productnumber.module; [ 
<!ENTITY % local.productnumber.attrib """>
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<![ %productnumber.element; [ 
<!ELEMENT ProductNumber - - ((%docinfo.char.mix;)+)>
<!--end of productnumber.element--> ]>

<!ENTITY % productnumber.attlist "INCLUDE">
<![ %productnumber.attlist; ]>
<!ATTLIST ProductNumber
%cnormal.attrib;
<!ENTITY % command.module "INCLUDE">
<![ %command.module; [ 
<!ENTITY % local.command.attrib "">
<!ENTITY % command.role.attrib "%role.attrib;">

<!ENTITY % command.element "INCLUDE">
<![ %command.element; [ 
<!ELEMENT Command - - ((%cptr.char.mix;)++)>
<![ %command.attlist; [ 
<!ATTLIST Command 
%moreinfo.attrib; 
%common.attrib; 
%command.role.attrib; 
%local.command.attrib; 
> 
<![ %computeroutput.module; [ 
<!ENTITY % local.computeroutput.attrib "">
<!ENTITY % computeroutput.role.attrib "%role.attrib;">

<!ENTITY % computeroutput.element "INCLUDE">
<![ %computeroutput.element; [ 
<!ELEMENT ComputerOutput - - ((%cptr.char.mix;)++)>
<![ %computeroutput.attlist; [ 
<!ATTLIST ComputerOutput 
%moreinfo.attrib; 
%common.attrib; 
%computeroutput.role.attrib; 
%local.computeroutput.attrib; 
> 
<![ %database.module; [ 

---

Open Source Used In OnPrem2.1 2.2 31738
<!ELEMENT GUIButton - - ((%smallcptr.char.mix;|Accel)+)>
<!-end of guibutton.element-->]]>

<!ENTITY % guibutton.attlist "INCLUDE">
<![ %guibutton.attlist; [
<!ATTLIST GUIButton
%moreinfo.attrib;
%common.attrib;
%guibutton.role.attrib;
%local.guibutton.attrib;
> 
<!-end of guibutton.attlist-->]]>
<!-end of guibutton.module-->]]>

<!ENTITY % guiicon.module "INCLUDE">
<![ %guiicon.module; [
<!ENTITY % local.guiicon.attrib "">
<!ENTITY % guiicon.role.attrib "%role.attrib;"> 

<!ENTITY % guiicon.element "INCLUDE">
<![ %guiicon.element; [
<!ELEMENT GUIIcon - - ((%smallcptr.char.mix;|Accel)+)>
<!-end of guiicon.element--> ]]> 

<!ENTITY % guiicon.attlist "INCLUDE">
<![ %guiicon.attlist; [
<!ATTLIST GUIIcon
%moreinfo.attrib;
%common.attrib;
%guiicon.role.attrib;
%local.guiicon.attrib;
> 
<!-end of guiicon.attlist--> ]]> 
<!-end of guiicon.module--> ]]> 

<!ENTITY % guilabel.module "INCLUDE">
<![ %guilabel.module; [
<!ENTITY % local.guilabel.attrib "">
<!ENTITY % guilabel.role.attrib "%role.attrib;"> 

<!ENTITY % guilabel.element "INCLUDE">
<![ %guilabel.element; [
<!ELEMENT GUILabel - - ((%smallcptr.char.mix;|Accel)+)>
<!-end of guilabel.element--> ]]> 

<!ENTITY % guilabel.attlist "INCLUDE">
<![ %guilabel.attlist; [
<!ATTLIST GUILabel
<!ENTITY % constant.role.attrib "%role.attrib;">

<!ENTITY % constant.element "INCLUDE">
<![ %constant.element; [
<!ELEMENT Constant - - (%smallcptr.char.mix;)*>
<!--end of constant.element-->]]>

<!ENTITY % constant.attlist "INCLUDE">
<![ %constant.attlist; [
<!ATTLIST Constant %common.attrib;
%constant.role.attrib;
%local.constant.attrib;
Class(Limit)#IMPLIED
> 
<!--end of constant.attlist-->]]>

<!ENTITY % varname.module "INCLUDE">
<![ %varname.module; [
<!ENTITY % local.varname.attrib "">
<!ENTITY % varname.role.attrib "%role.attrib;">

<!ENTITY % varname.element "INCLUDE">
<![ %varname.element; [
<!ELEMENT VarName - - (%smallcptr.char.mix;)*>
<!--end of varname.element-->]]>

<!ENTITY % varname.attlist "INCLUDE">
<![ %varname.attlist; [
<!ATTLIST VarName %common.attrib;
%varname.role.attrib;
%local.varname.attrib;
> 
<!--end of varname.attlist-->]]>

<!ENTITY % markup.module "INCLUDE">
<![ %markup.module; [
<!ENTITY % local.markup.attrib "">
<!ENTITY % markup.role.attrib "%role.attrib;">

<!ENTITY % markup.element "INCLUDE">
<![ %markup.element; [
<!ELEMENT Markup - - (%smallcptr.char.mix;+)>
<!--end of markup.element-->]]>

Open Source Used In OnPrem2.1 2.2 31748
<!ENTITY % menuchoice.attlist "INCLUDE">
<![ %menuchoice.attlist; [ 
<!ATTLIST MenuChoice
%moreinfo.attrib;
%common.attrib;
%menuchoice.role.attrib;
%local.menuchoice.attrib;
> 
<![ %menuchoice.attlist-->]]>
<![ %menuchoice.module-->]]>

<!ENTITY % shortcut.module "INCLUDE">
<![ %shortcut.module; [ 
<!-- See also KeyCombo -->
<![ %local.shortcut.attrib ""]> 
<![ %shortcut.role.attrib "%role.attrib;"]> 

<!ENTITY % shortcut.element "INCLUDE">
<![ %shortcut.element; [ 
<!ELEMENT Shortcut - - ((KeyCap|KeyCombo|KeySym|MouseButton)+)> 
<![ %shortcut.attlist "INCLUDE"> 

<!ENTITY % mousebutton.module "INCLUDE">
<![ %mousebutton.module; [ 
<![ %local.mousebutton.attrib ""]> 
<![ %mousebutton.role.attrib "%role.attrib;"]> 

<!ENTITY % mousebutton.element "INCLUDE">
<![ %mousebutton.element; [ 
<!ELEMENT MouseButton - - ((%smallcptr.char.mix;)+)> 

<!ENTITY % mousebutton.attlist "INCLUDE">
<!ATTLIST Option
%common.attrib;
%option.role.attrib;
%local.option.attrib;
>
<!--end of option.attlist-->
<!--end of option.module-->

<!ENTITY % optional.module "INCLUDE">
<![ %optional.module; [
<!ENTITY % local.optional.attrib "">
<!ENTITY % optional.role.attrib "%role.attrib;">

<!--end of optional.element-->
]

<!ENTITY % optional.attlist "INCLUDE">
<![ %optional.attlist; [
<!ATTLIST Optional
%common.attrib;
%optional.role.attrib;
%local.optional.attrib;
>
<!--end of optional.attlist-->
<!--end of optional.module-->

<!ENTITY % parameter.module "INCLUDE">
<![ %parameter.module; [
<!ENTITY % local.parameter.attrib "">
<!ENTITY % parameter.role.attrib "%role.attrib;">

<!--end of parameter.element-->
]

<!ENTITY % parameter.attlist "INCLUDE">
<![ %parameter.attlist; [
<!ATTLIST Parameter
--
Class: Type of the Parameter; no default
--
Class (Command
|Function
|Option)#IMPLIED
%moreinfo.attrib;
%moreinfo.attrib;
%common.attrib;
%userinput.role.attrib;
%local.userinput.attrib;

<!-- General words and phrases ............................................ -->

<!ENTITY % abbrev.module "INCLUDE">
<![ %abbrev.module; [ 
<!ENTITY % local.abbrev.attrib "">
<!ENTITY % abbrev.role.attrib "%role.attrib;">

<!ENTITY % abbrev.element "INCLUDE">
<![ %abbrev.element; [ 
<!ELEMENT Abbrev - - ((%word.char.mix;)+)>
</!--end of abbrev.element-->]]>

<!ENTITY % abbrev.attlist "INCLUDE">
<![ %abbrev.attlist; [ 
<!ATTLIST Abbrev %common.attrib; %abbrev.role.attrib; %local.abbrev.attrib; >
</!--end of abbrev.attlist-->]]>

<!ENTITY % acronym.module "INCLUDE">
<![ %acronym.module; [ 
<!ENTITY % local.acronym.attrib "">
<!ENTITY % acronym.role.attrib "%role.attrib;">

<!ENTITY % acronym.element "INCLUDE">
<![ %acronym.element; [ 
<!ELEMENT Acronym - - ((%word.char.mix;)++) %acronym.exclusion;>
</!--end of acronym.element-->]]>

<!ENTITY % acronym.attlist "INCLUDE">
<![ %acronym.attlist; [ 
<!ATTLIST Acronym %common.attrib; %acronym.role.attrib; %local.acronym.attrib; >
</!--end of acronym.attlist-->]]>
Pubwork: Genre of published work cited; no default
--
Pubwork(Article
|Book
|Chapter
|Part
|RefEntry
|Section
|Journal
|Series
|Set
|Manuscript)#IMPLIED
%common.attrib;
%citetitle.role.attrib;
%local.citetitle.attrib;
>
<!--end of citetitle.attlist-->]]>
<!--end of citetitle.module-->]]>

<!ENTITY % emphasis.module "INCLUDE">
<![ %emphasis.module; [ 
<!ENTITY % local.emphasis.attrib "">
<!ENTITY % emphasis.role.attrib "%role.attrib;">

<!ENTITY % emphasis.element "INCLUDE">
<![ %emphasis.element; [ 
<!ELEMENT Emphasis - - ((%para.char.mix;)+)> 
<!--end of emphasis.element-->]]>

<!ENTITY % emphasis.attlist "INCLUDE">
<![ %emphasis.attlist; [ 
<!ATTLIST Emphasis 
%common.attrib; 
%emphasis.role.attrib; 
%local.emphasis.attrib; 
> 
<!--end of emphasis.attlist-->]]>
<!--end of emphasis.module-->]]>

<!ENTITY % firstterm.module "INCLUDE">
<![ %firstterm.module; [ 
<!ENTITY % local.firstterm.attrib "">
<!ENTITY % firstterm.role.attrib "%role.attrib;">

<!ENTITY % firstterm.element "INCLUDE">
<![ %firstterm.element; [ 
<!ELEMENT FirstTerm - - ((%word.char.mix;)+)> 
<!--end of firstterm.element-->]]>
for indexing
--
BaseFormCDATA#IMPLIED
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<!--end of glossterm.attlist-->
</!
<!--end of glossterm.module-->]]>

<!ENTITY % phrase.module "INCLUDE">
<![%phrase.module; [ 
<!ENTITY % local.phrase.attrib ""
<!ENTITY % phrase.role.attrib "%role.attrib;" >

<!ENTITY % phrase.element "INCLUDE">
<![%phrase.element; [ 
<!ELEMENT Phrase - - ((%para.char.mix;)+)>
<!--end of phrase.element-->]]>

<!ENTITY % phrase.attlist "INCLUDE">
<![%phrase.attlist; [ 
<!ATTLIST Phrase
%common.attrib;
%phrase.role.attrib;
%local.phrase.attrib;
>
<!--end of phrase.attlist-->]]>
</!--end of phrase.module--]]>

<!ENTITY % quote.module "INCLUDE">
<![%quote.module; [ 
<!ENTITY % local.quote.attrib ""
<!ENTITY % quote.role.attrib "%role.attrib;" >

<!ENTITY % quote.element "INCLUDE">
<![%quote.element; [ 
<!ELEMENT Quote - - ((%para.char.mix;)+)>
<!--end of quote.element-->]]>

<!ENTITY % quote.attlist "INCLUDE">
<![%quote.attlist; [ 
<!ATTLIST Quote
%common.attrib;
%quote.role.attrib;
%local.quote.attrib;
>
<!--end of quote.attlist-->]]>
<!ENTITY % link.attlist "INCLUDE">
<![ %link.attlist; [ 
<!ATTLIST Link
--
Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element
--
EndtermIDREF#IMPLIED
%linkendreq.attrib; --to linked-to object--
--
Type: Freely assignable parameter
--
TypeCDATA#IMPLIED
%common.attrib;
%link.role.attrib;
%local.link.attrib;
>
<![--end of link.attlist-->]]>
<![--end of link.module-->]]>

<![ENTITY % olink.module "INCLUDE">
<![ %olink.module; [ 
<!ENTITY % local.olink.attrib ""->
<!ENTITY % olink.role.attrib "%role.attrib;">
<!ENTITY % olink.element "INCLUDE">
<![ %olink.element; [ 
<!ELEMENT OLink - - ((%para.char.mix;)+) %links.exclusion;>
<![--end of olink.element-->]]>

<![ENTITY % olink.attlist "INCLUDE">
<![ %olink.attlist; [ 
<!ATTLIST OLink
--
TargetDocEnt: Name of an entity to be the target of the link
--
TargetDocEntENTITY #IMPLIED
--
LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt
--
LinkModeIDREF#IMPLIED
--
LocalInfo: Information that may be passed to ModeSpec
--
LocalInfo CDATA#IMPLIED

Open Source Used In OnPrem2.1 2.2 31768
<![ %anchor.element; [ 
<!ELEMENT Anchor - O EMPTY> 
<!--end of anchor.element--> ]]>

<!ENTITY % anchor.attlist "INCLUDE"> 
<![ %anchor.attlist; [ 
<!ATTLIST Anchor 
%idreq.attrib; -- required -- 
%pagenum.attrib; --replaces Lang -- 
%remap.attrib; 
%xreflabel.attrib; 
%revisionflag.attrib; 
%effectivity.attrib; 
%anchor.role.attrib; 
%local.anchor.attrib; 
> 
<!--end of anchor.attlist--> ]]>
<!--end of anchor.module--> ]]> 

<!ENTITY % beginpage.module "INCLUDED"> 
<![ %beginpage.module; [ 
<!ENTITY % local.beginpage.attrib ""> 
<!ENTITY % beginpage.role.attrib "%role.attrib;"> 

<!ENTITY % beginpage.element "INCLUDED"> 
<![ %beginpage.element; [ 
<!ELEMENT BeginPage - O EMPTY> 
<!--end of beginpage.element--> ]]>

<!ENTITY % beginpage.attlist "INCLUDED"> 
<![ %beginpage.attlist; [ 
<!ATTLIST BeginPage 
-- Pagenum: Number of page that begins at this point 
-- 
%pagenum.attrib; 
%common.attrib; 
%beginpage.role.attrib; 
%local.beginpage.attrib; 
> 
<!--end of beginpage.attlist--> ]]> 
<!--end of beginpage.module--> ]]> 

<!-- IndexTerms appear in the text flow for generating or linking an index. --> 

<!ENTITY % indexterm.content.module "INCLUDED"> 
<![ %indexterm.content.module; [ 

Open Source Used In OnPrem2.1 2.2 31771
ZoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;
>
<!--end of indexterm.attlist-->]]>
<!--end of indexterm.module-->]]>

<!--end of indexterm.attlist-->

<!ENTITY % primsector.module "INCLUDE">
<![ %primsector.module; [ 
<!ENTITY % local.primsector.attrib "" >
<!ENTITY % primsector.role.attrib "%role.attrib;">

<!--end of indexterm.attlist-->

<!ENTITY % primsector.elements "INCLUDE">
<![ %primsector.elements; [ 
<!--end of primsector.elements-->

<!ENTITY % primsector.attlists "INCLUDE">
<![ %primsector.attlists; [ 
<!ENTITY % containing.attlist "INCLUDE">
<![ %containing.attlist; [ 
<!ATTLIST (Primary | Secondary | Tertiary)
--
SortAs: Alternate sort string for index sorting, e.g.,
"fourteen" for an element containing "14"
--
SortAsCDATA#IMPLIED
%common.attrib;
%primsector.role.attrib;
%local.primsector.attrib;
>
<!--end of containing.attlist-->]]>
<!--end of primsector.attlist-->]]>
<!--end of primsector.module-->]]>

<!--end of containing.attlist-->

<!ENTITY % seeseealso.module "INCLUDE">
<![ %seeseealso.module; [ 
<!ENTITY % local.seeseealso.attrib "" >
<!ENTITY % seeseealso.role.attrib "%role.attrib;">

<!--end of seeseealso.elements-->

<!ENTITY % seeseealso.elements "INCLUDE">
<![ %seeseealso.elements [ 
<!ELEMENT (See | SeeAlso) - O (%ndxterm.char.mix;+) >
<!--end of seeseealso.elements-->

<!ENTITY % seeseealso.attlists "INCLUDE">
<![ %seeseealso.attlists [ 

---
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk40.zip-cosi-expand-archive-ut8BkZ5w/dbpool.mod

No license file was found, but licenses were detected in source scan.

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This module contains the definitions for elements that are
isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.3 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % htmltbl PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN" "htmltblx.mod">
%htmltbl;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!--======================= XHTML Tables =======================================-->
<!ENTITY % html.coreattrs "id      ID             #IMPLIED
class    CDATA          #IMPLIED
style    CDATA          #IMPLIED
title    CDATA         #IMPLIED"
>  
<!-- Does not contain lang or dir because they are in %common.attribs -->
<!ENTITY % i18n "xml:lang    NMTOKEN        #IMPLIED"
>  
<!ENTITY % events "onclick     CDATA       #IMPLIED
ondblclick  CDATA       #IMPLIED
onmousedown CDATA       #IMPLIED
onmouseup   CDATA       #IMPLIED
onmouseover CDATA       #IMPLIED
onmousemove CDATA       #IMPLIED
onmouseout  CDATA       #IMPLIED
onkeypress  CDATA       #IMPLIED
onkeydown   CDATA       #IMPLIED
onkeyup     CDATA       #IMPLIED
onkeydown   CDATA       #IMPLIED
onkeydown   CDATA       #IMPLIED
"-->
```

---

*Open Source Used In OnPrem 2.1 2.2 31775*
onkeyup CDATA #IMPLIED
>

<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">

<!ENTITY % cellhalign "align (left|center|right|justify|char) #IMPLIED
char CDATA #IMPLIED
charoff CDATA #IMPLIED">

<!ENTITY % cellvalign "valign (top|middle|bottom|baseline) #IMPLIED" >

<!ELEMENT colgroup (col)*>
<!ELEMENT col EMPTY>
<!ELEMENT tr (th|td)+>
<!ELEMENT th (%para.char.mix; | %tabentry.mix;)*>
<!ELEMENT td (%para.char.mix; | %tabentry.mix;)*>

<!ATTLIST colgroup %attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST col %attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST tr %attrs;
%cellhalign;
%cellvalign;
bgcolor CDATA #IMPLIED
>

<!ATTLIST th %attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
Open Source Used In OnPrem2.1 2.2 31778
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-xml-4.3.zip-cosi-expand-archive-SodZg7bP/htmltblx.mod
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.3.zip-cosi-expand-archive-uG2nHM3j/htmltblx.mod
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$Id: docbook.dtd,v 1.11 2000/06/19 14:42:02 nwalsh Exp $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk41.zip-cosi-expand-archive-tHWCf4mF/docbook.dtd
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/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbd/docbook-4.4.zip-cosi-expand-archive-xcVgNXBw/docbook.dtd

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See also http://docbook.org/specs/

$Id: docbookx.dtd,v 1.31 2005/01/27 13:52:36 nwalsh Exp $
No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->

<!-- DocBook notations module V4.1 .............................. -->

<!-- File dbnotn.mod ................................................. -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, and the Organization for the Advancement of
Structured Information Standards (OASIS).

$Id: dbnotn.mod,v 1.8 2000/06/19 14:40:17 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.

<!-- ................................................................. -->

<!-- This module contains the entity declarations for the standard
notations used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.1//EN">

%dbnotn;
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | linespecific %local.notation.class;">

<!NOTATION BMPPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVI SYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "-//AT&T//NOTATION EQN-1/EN" -->
<!NOTATION FAXPUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untitled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN”>
<!NOTATION GIF89a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN”>
<!NOTATION JPSYSTEM "JPG">
<!NOTATION JPSYSTEM "JPG">
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN”>
<!NOTATION PICSYSTEM>
<!NOTATION PNG SYSTEM "http://www.w3.org/TR/REC-png”>
<!NOTATION PSSYSTEM "PS”>
<!NOTATION SGMLPUBLIC
<!NOTATION TBLSYSTEM>
<!NOTATION TIFF SYSTEM "TIFF">
<!NOTATION WMF PUBLIC "+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG SYSTEM "WPG" --WordPerfect Graphic format-->
<!NOTATION linespecific SYSTEM "line ends and leading white space must be preserved in output">

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk31.zip-cosi-expand-archive-DezE9y2U/docbook.dtd

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$Id: docbook.dtd 3.1 1999/02/02 11:54:12 nwalsh Exp$

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* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk31.zip-cosi-expand-archive-DezE9y2U/docbook.dtd

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<!-- ...................................................................... -->
<!-- DocBook character entities module V3.1 ...................................... -->
<!-- File dbcent.mod ...................................................... -->

<!-- ......................... -->
<!-- DocBook character entities module V3.1 ...................... -->
<!-- File dbcent.mod ............................................. -->
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<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V3.1//EN">%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.


<!ENTITY % ISObox PUBLIC "ISO 8879:1986//ENTITIES Box and Line Drawing//EN" %ISObox;>

<!ENTITY % ISOcyr1 PUBLIC "ISO 8879:1986//ENTITIES Box and Line Drawing//EN" %ISOcyr1;>
Open Source Used In OnPrem2.1 2.2 31787

<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN">
%ISOlat1;
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![ %ISOlat2.module; [ 
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN">
%ISOlat2;
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![ %ISOnum.module; [ 
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN">
%ISOnum;
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![ %ISOpub.module; [ 
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN">
%ISOpub;
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![ %ISOtech.module; [ 
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN">
%ISOtech;
<!--end of ISOtech.module-->]]>

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand- archive-sLxqqjbD/docbk31.zip-cosi-expand-archive-DezE9y2U/dbcent.mod
No license file was found, but licenses were detected in source scan.

<!!-- ................................................................. -->
<!!-- DocBook XML character entities module V4.1.2 ................. -->
<!!-- File dbcentx.mod ............................................ -->

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Corporation, Norman Walsh, and the Organization for the Advancement of Structured Information Standards (OASIS).

$Id: dbcentx.mod,v 1.10 2000/08/27 15:12:42 nwalsh Exp $
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<!-- ...................................................................... -->

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook XML Character Entities V4.1.2//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;]
<!ENTITY % ISOamsa PUBLIC
"ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->]]>
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbxx412.zip-cosi-expand-archive-KAtNmOAJ/dbcentx.mod
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DOD/DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.10 2000/08/27 15:12:41 nwalsh Exp $

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* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbxx412.zip-cosi-expand-archive-KAtNmOAJ/calstblx.dtd
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$Id: dbhier.mod,v 1.11 2000/06/19 14:40:17 nwalsh Exp $

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<!-- ...................................................................... -->
<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles. -->

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.1//EN"> %dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->
<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->

<!DOCTYPE ELEMENTS [ %dbhier; ]>
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "Appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "Article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class "Book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "Chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class "Index|SetIndex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "RefEntry %local.refentry.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "ToC|LoT|Index|Glossary|Bibliography %local.nav.class;">

<!-- Redeclaration placeholder ............................................ -->
<!-- For redeclaring entities that are declared after this point while
    retaining their references to the entities that are declared before
    this point -->

<!-- ...................................................................... -->
<!-- Entities for element mixtures ........................................ -->
<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!-- !ENTITY % forms.hook "">

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;%admon.class;
 |%linespecific.class;%synop.class;
 |%para.class;%informal.class;
 |%formal.class;%compound.class;
 |%genobj.class;%descobj.class;
 |%ndxterm.class;
  %forms.hook;"
<!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![ %dbhier.redecl2.module; [
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- Entities for content models .......................................... -->

<!ENTITY % div.title.content
"Title, Subtitle?, TitleAbbrev?">

<!ENTITY % bookcomponent.title.content
"Title, Subtitle?, TitleAbbrev?">

<!ENTITY % sect.title.content
"Title, Subtitle?, TitleAbbrev?">

<!ENTITY % refsect.title.content
"Title, Subtitle?, TitleAbbrev?">

<!ENTITY % bookcomponent.content
"((%divcomponent.mix:)+,
   (Sect1*|(%refentry.class;)*|SimpleSect*|Section*)
     | (Sect1+|(%refentry.class;)+|SimpleSect+|Section+))">

<!-- Set and SetInfo ...................................................... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module; [
<!ENTITY % set.module "INCLUDE">
<![%set.module; [
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element; [
<!ELEMENT Set - O ((%div.title.content:)?, SetInfo?, ToC?, (%book.class;)+,
   SetIndex?) %ubiq.inclusion;>
<!--end of set.element-->]]>

<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist; [

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What did we decide about RenderAs?

RenderAs(Sect1 | Sect2 | Sect3 | Sect4 | Sect5)#IMPLIED

--
%label.attrib;
%status.attrib;
%common.attrib;
%section.role.attrib;
Open Source Used In OnPrem2.1 2.2  31820
An Article is a chapter-level, stand-alone document that is often, but not need be, collected into a Book. --

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.
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<!-- ................................................................. -->

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This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "Appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "Article %local.article.class;">
<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
"ItemizedList|OrderedList|VariableList|SimpleList
%linespecific.class;%synop.class;
%para.class;%informal.class;
Anchor|Remark
%link.char.class;
%local.indexdivcomponent.mix;">  

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
"#PCDATA
%tech.char.class;
%local.refname.char.mix;">  

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
"%appendix.class;%chapter.class;%nav.class;%article.class;
|Preface|%refentry.class|Reference %local.partcontent.mix;">  

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
"#PCDATA
|%xref.char.class;%gen.char.class;
|%link.char.class;%tech.char.class;
|%base.char.class;%docinfo.char.class;
|%other.char.class;
|%ndxterm.class;
%local.refinline.char.mix;">  

<!ENTITY % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix
"#PCDATA
|Application
%local.refclass.char.mix;">  

<!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->
The %article.class; entity *may* be removed from the Book content model.
(Article may be made part of a new top-level document hierarchy.)

-->

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;"> 

<!ENTITY % book.element "INCLUDE”>
<![ %book.element; ]
<!ELEMENT Book - O ((%div.title.content;)?, BookInfo?, (Dedication | ToC | LoT | Glossary | Bibliography | Preface | %chapter.class; | Reference | Part | %article.class; | %appendix.class; | %index.class; | Colophon)*) %ubiq.inclusion;>
<!−end of book.element−>]]>

<!ENTITY % book.attlist "INCLUDE”>
<![ %book.attlist; ]
<!ATTLIST Book -- FPI: SGML formal public identifier -- FPICDATA#IMPLIED %label.attrib; %status.attrib; %common.attrib; %book.role.attrib; %local.book.attrib; >
<!−end of book.attlist−>]]>

<!ENTITY % bookinfo.module "INCLUDE”>
<![ %bookinfo.module; ]
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;"> 

<!ENTITY % bookinfo.element "INCLUDE”>
<![ %bookinfo.element; ]
<!ELEMENT BookInfo - - ((Graphic | MediaObject | LegalNotice | ModeSpec | SubjectSet}
<!ENTITY % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; ]
<!ATTLIST IndexInfo
%common.attrib;
%indexinfo.role.attrib;
%local.indexinfo.attrib;
>
<!--end of indexinfo.attlist-->]]>
<!--end of indexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
<![ %partinfo.module; ]
<!ENTITY % local.partinfo.attrib ""
<!ENTITY % partinfo.role.attrib "%role.attrib;" >

<!ENTITY % partinfo.element "INCLUDE">
<![ %partinfo.element; ]
<!ELEMENT PartInfo - - ((Graphic | MediaObject
| LegalNotice | ModeSpec
| SubjectSet | KeywordSet | ITermSet | %bibliocomponent.mix;)+)
%beginpage.exclusion;>
<!--end of partinfo.element-->]]>
<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; ]
<!ATTLIST PartInfo
%common.attrib;
%partinfo.role.attrib;
%local.partinfo.attrib;
>
<!--end of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>

<!ENTITY % prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; ]
<!ENTITY % local.prefaceinfo.attrib ""
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;" >

<!ENTITY % prefaceinfo.element "INCLUDE">
<![ %prefaceinfo.element; ]
<!ELEMENT PrefaceInfo - - ((Graphic | MediaObject
| LegalNotice | ModeSpec
| SubjectSet | KeywordSet | ITermSet | %bibliocomponent.mix;)+)
%beginpage.exclusion;>
<!--end of prefaceinfo.element-->]]>
<!ENTITY % prefaceinfo.attlist "INCLUDE">
<![ %prefaceinfo.attlist; [ 
<!ATTLIST PrefaceInfo
%common.attrib;
%prefaceinfo.role.attrib;
%local.prefaceinfo.attrib;
> 
<!--end of prefaceinfo.attlist-->]]>
<!--end of prefaceinfo.module-->]]>

<!ENTITY % reftentryinfo.module "INCLUDE">
<![ %reftentryinfo.module; [ 
<!ENTITY % local.reftentryinfo.attrib "">
<!ENTITY % reftentryinfo.role.attrib "%role.attrib;">

<!ENTITY % reftentryinfo.element "INCLUDE">
<![ %reftentryinfo.element; [ 
<!ELEMENT ReftEntryInfo - - ((Graphic | MediaObject
| LegalNotice | ModeSpec
| SubjectSet | KeywordSet | ITermSet | %bibliocomponent.mix;)+)
%beginpage.exclusion;>
<!--end of reftentryinfo.element-->]]>

<!ENTITY % reftentryinfo.attlist "INCLUDE">
<![ %reftentryinfo.attlist; [ 
<!ATTLIST ReftEntryInfo
%common.attrib;
%reftentryinfo.role.attrib;
%local.reftentryinfo.attrib;
> 
<!--end of reftentryinfo.attlist-->]]>
<!--end of reftentryinfo.module-->]]>

<!ENTITY % resect1info.module "INCLUDE">
<![ %resect1info.module; [ 
<!ENTITY % local.resect1info.attrib "">
<!ENTITY % resect1info.role.attrib "%role.attrib;">

<!ENTITY % resect1info.element "INCLUDE">
<![ %resect1info.element; [ 
<!ELEMENT RefSect1Info - - ((Graphic | MediaObject
| LegalNotice | ModeSpec
| SubjectSet | KeywordSet | ITermSet | %bibliocomponent.mix;)+)
%beginpage.exclusion;>
<!--end of resect1info.element-->]]>

<!ENTITY % resect1info.attlist "INCLUDE">
<![ %resect1info.attlist; [ 
<!ATTLIST RefSect1Info
%common.attrib;
%resect1info.role.attrib;
%local.resect1info.attrib;
> 
<!--end of resect1info.attlist-->]]>
<!--end of resect1info.module-->]]>
<!--end of refsect3info.attlist-->

<!--end of refsect3info.module-->

<!--end of refsynopsisdivinfo.attlist-->

<!--end of refsynopsisdivinfo.module-->

<!--end of refsynopsisdivinfo.element-->

<!--end of refsynopsisdivinfo.attlist-->

<!--end of refsynopsisdivinfo.module-->

<!--end of refsynopsisdivinfo.element-->

<!--end of referenceinfo.attlist-->

<!--end of referenceinfo.module-->

<!--end of referenceinfo.element-->

<!--end of referenceinfo.attlist-->

<!--end of referenceinfo.module-->

<!--end of referenceinfo.element-->
What did we decide about RenderAs?

Renderas(Sect1
| Sect2
| Sect3
| Sect4
| Sect5)#IMPLIED

--
%label.attrib;
%status.attrib;
%common.attrib;
%section.role.attrib;
-- Renderas: Indicates the format in which the heading should appear
--
renderas(Sect2
|Sect3
|Sect4
|Sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect1.role.attrib;
%local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!--ENTITY % sect2.module "INCLUDE">
<![ %sect2.module; [
<!--ENTITY % local.sect2.attrib """>
<!--ENTITY % sect2.role.attrib "%role.attrib;" >

<!--ENTITY % sect2.element "INCLUDE" >
<![ %sect2.element; [
<!--ELEMENT Sect2 - O (Sect2Info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)+ | Sect3* | SimpleSect*))
| (%refentry.class;)+ | Sect3+ | SimpleSect+), (%nav.class;)*)>
<!--end of sect2.element-->]]>

<!--ENTITY % sect2.attlist "INCLUDE" >
<![ %sect2.attlist; [
<!ATTLIST Sect2
--
renderas: Indicates the format in which the heading should appear
--
renderas(Sect1
|Sect3
|Sect4
|Sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.

ParentBook: ID of the enclosing Book

ParentBook IDREF #IMPLIED

%status.attrib; %common.attrib; %article.role.attrib; %local.article.attrib;

<![-end of article.attlist-->]]>
<![-end of article.module-->]]>

<!-- End of DocBook document hierarchy module V4.0 ................-->
<!-- ................................................................. -->

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbk40.zip-cosi-expand-archive-ut8BkZ5w/dbhier.mod

No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->
<!-- DocBook document hierarchy module V4.3 ........................ -->
<!-- File dbhier.mod ................................................. -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information Standards (OASIS).

$Id: dbhier.mod,v 1.29 2004/03/31 10:40:22 nwalsh Exp $

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<!-- .......................................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.3//EN"
"dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- .......................................................... -->

<!-- Entities for module inclusions ................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- .......................................................... -->
<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refclass.char.mix "#PCDATA
|application
%local.refclass.char.mix;">  

<!-- Redeclaration placeholder 2 .......................................... -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Redeclaration placeholder 2 .......................................... -->

<!-- Entities for content models .......................................... -->

<!-- ...................................................................... -->

<!-- Set and SetInfo ...................................................... -->

<!-- ...................................................................... -->
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![ [%set.element;]
<!ELEMENT set %ho; ((%div.title.content;)?, setinfo?, toc?, (set|%book.class;)+, setindex?)
%ubiq.inclusion;>
<![!--end of set.element-->]]>

<![!-- FPI: SGML formal public identifier -->

<!ENTITY % set.attlist "INCLUDE">
<![ [%set.attlist;]
<!ATTLIST set
fpiCDATA#IMPLIED
%status.attrib;
%common.attrib;
%set.role.attrib;
%local.set.attrib;
> 
<![!--end of set.attlist-->]]
<![!--end of set.module-->]]>

<!ENTITY % setinfo.module "INCLUDE">
<![ [%setinfo.module;]
<!ENTITY % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![ [%setinfo.element;]
<!ELEMENT setinfo %ho; (%info.class;)+
%beginpage.exclusion;>
<![!--end of setinfo.element-->]]>

<![!-- Contents: IDs of the ToC, Books, and SetIndex that comprise the set, in the order of their appearance -->

<!ENTITY % setinfo.attlist "INCLUDE">
<![ [%setinfo.attlist;]
<!ATTLIST setinfo contentsIDREFS#IMPLIED
%common.attrib;
%setinfo.role.attrib;
%local.setinfo.attrib;
> 
<![!--end of setinfo.attlist-->]]>

Open Source Used In OnPrem2.1 2.2 31885
<!ELEMENT tocback %ho; (%para.char.mix;)*>
<!--end of tocback.element-->
<!ENTITY % tocback.attlist "INCLUDE">
<![%tocback.attlist;[
<!ATTLIST tocback
%label.attrib;
%linkend.attrib;%pagenum.attrib;
%common.attrib;
%tocback.role.attrib;
%local.tocback.attrib;
>
<!--end of tocback.attlist--]]>
<!--end of tocback.module--]]>
<!--end of toc.content.module--]]>

<!ENTITY % lot.content.module "INCLUDE">
<![%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element--]]>

<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
%label.attrib;
%common.attrib;
%lot.role.attrib;
%local.lot.attrib;
>
<!--end of lot.attlist--]]>
<!--end of lot.module--]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

Open Source Used In OnPrem 2.1 2.2 31893
%refsynopsisdivinfo.role.attrib;
%local.refsynopsisdivinfo.attrib;
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!--ENTITY % referenceinfo.module "INCLUDE">  
<![ %referenceinfo.module; [  
<!--ENTITY % local.referenceinfo.attrib "">  
<!--ENTITY % referenceinfo.role.attrib "%role.attrib;">  

<!--ENTITY % referenceinfo.element "INCLUDE">  
<![ %referenceinfo.element; [  
<!--ELEMENT referenceinfo %ho; (%info.class;)+  
%beginpage.exclusion;>  
<!--end of referenceinfo.element-->]]>
<!--end of referenceinfo.module-->]]>

<!--ENTITY % referenceinfo.attlist "INCLUDE">  
<![ %referenceinfo.attlist; [  
<!--ATTLIST referenceinfo  
%common.attrib;  
%referenceinfo.role.attrib;  
%local.referenceinfo.attrib;  
>  
<!--end of referenceinfo.attlist-->]]>
<!--end of referenceinfo.module-->]]>

<!--ENTITY % local.sect1info.attrib "">  
<!--ENTITY % sect1info.role.attrib "%role.attrib;">  

<!--ENTITY % sect1info.element "INCLUDE">  
<![ %sect1info.element;[  
<!--ELEMENT sect1info %ho; (%info.class;)+  
%beginpage.exclusion;>  
<!--end of sect1info.element-->]]>
<!--end of sect1info.module-->]]>

<!--ENTITY % sect1info.attlist "INCLUDE">  
<![ %sect1info.attlist;[  
<!--ATTLIST sect1info  
%common.attrib;  
%sect1info.role.attrib;  
%local.sect1info.attrib;  
>  
<!--end of sect1info.attlist-->]]>
<!--end of sect1info.module-->]]>

<!--ENTITY % local.sect2info.attrib "">  
<!--ENTITY % sect2info.role.attrib "%role.attrib;">
<!-- Renderas: Indicates the format in which the heading should appear -->
<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
%status.attrib;
%common.attrib;
%glossary.role.attrib;
%local.glossary.attrib;
>
<!--end of glossary.attlist-->
]]>
<!--end of glossary.module-->
]
]
<!--end of glossary.content.module-->
]
]

<!-- Entity reference -->

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![indexes.module;[
<!ENTITY % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![index.element;[
<!ELEMENT index %ho; (indexinfo?,
(sect.title.content;), (component.mix;)*,
glossentry+)>
<!ENTITY % refsect2.element "INCLUDE">
<![refsect2.element;[
  <!ELEMENT refsect2 %ho; (refsect2info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
  <!--end of refsect2.element--]>]]>

<!ENTITY % refsect2.attlist "INCLUDE">
<![refsect2.attlist;[
  <!ATTLIST refsect2
    %status.attrib;
    %common.attrib;
    %refsect2.role.attrib;
    %local.refsect2.attrib;
  >
  <!--end of refsect2.attlist--]>]]>

<!ENTITY % refsect3.module "INCLUDE">
<![refsect3.module;[
  <!ENTITY % local.refsect3.attrib "">
  <!ENTITY % refsect3.role.attrib "%role.attrib;">

  <!ENTITY % refsect3.element "INCLUDE">
  <![refsect3.element;[
    <!ELEMENT refsect3 %ho; (refsect3info?, (%refsect.title.content;),
    (%refcomponent.mix;)+)>
    <!--end of refsect3.element--]>]]>

  <!ENTITY % refsect3.attlist "INCLUDE">
  <![refsect3.attlist;[
    <!ATTLIST refsect3
      %status.attrib;
      %common.attrib;
      %refsect3.role.attrib;
      %local.refsect3.attrib;
    >
    <!--end of refsect3.attlist--]>]]>

--end of refentry.content.module--]]>

<!ENTITY % article.module "INCLUDE">
<![article.module;[
  <!-- An Article is a chapter-level, stand-alone document that is often,
  but need not be, collected into a Book. -->
  <!--- ........................... -->
  <!--- Article ........................... -->

  <!ENTITY % article.module "INCLUDE">
  <![article.module;[
    <!-- An Article is a chapter-level, stand-alone document that is often,
    but need not be, collected into a Book. -->
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-xml-4.2.zip-cosi-expand-archive-akbI06Le/docbookx.dtd
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.2.zip-cosi-expand-archive-uEc63AwV/docbookx.dtd

No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook notations module V4.4 ........................................ -->
<!-- File dbnotnx.mod ..................................................... -->
<!-- File dbnotnx.mod ..................................................... -->


$Id: dbnotnx.mod,v 1.31 2005/01/27 13:52:00 nwalsh Exp $

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<!-- This module contains the notation declarations used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.4//EN"
"dbnotnx.mod">
%
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- This module contains the notation declarations used by DocBook. -->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | SVG | PDF | SWF | linespecific">
%

<!-- This module contains the notation declarations used by DocBook. -->

<!NOTATION BMP PUBLIC
"+/ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "EQN">
Organization for the Advancement of Structured Information Standards (OASIS).

$Id: dbpoolx.mod,v 1.86 2004/03/31 10:40:22 nwalsh Exp $

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<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

o It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbpool PUBLIC "-//OASIS//ELEMENTS DocBook XML Information Pool V4.3//EN" "dbpoolx.mod">%dbpool;
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--
<!ENTITY % yesorno.attvals"CDATA">
<!- General-purpose semantics entities .............. -->

<!-- Entities for module inclusions .................... -->

<!ENTITY % dbpool.redecl.module "IGNORE">
<!- Entities for element classes and mixtures ............ -->

<!- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
<!- Object-level classes .................................... -->

<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist
|simplelist|variablelist %local.list.class;">

<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">

<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"literallayout|programlisting|programlistingco|screen
|screenco|screenshot %local.linespecific.class;">

<!ENTITY % local.method.synop.class "">
<!ENTITY % method.synop.class
"constructorsynopsis
destructorsynopsis
|methodsynopsis %local.method.synop.class;"
<!-- Entities for content models --------------------------------------- -->

<!ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- Redeclaration placeholder ---------------------------------------- -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbpool.redecl.module;[
<!-- Defining dbpool here makes some buggy XML parsers happy. -->
<!ENTITY % dbpool "">
%dbpool;
<!-end of dbpool.redecl.module-->]]>

<!-- Object-level mixtures ------------------------------------------- -->

<!--
list admn line synp para infm form cmpd gen desc
Component mixture   X   X   X   X   X   X   X   X   X   X   X
Sidebar mixture     X   X   X   X   X   X   X   a   X
Footnote mixture    X   X   X   X   X   X   X   X   X   X   X
Example mixture     X   X   X   X   X   X   X   X   X   X   X
Highlights mixture  X   X   X   X   X   X   X   X   X   X   X
Paragraph mixture   X   X   X   X   X   X   X   X   X   X   X
Admonition mixture  X   X   X   X   X   X   X   X   X   X   X
Figure mixture      X   X   X   X   X   X   X   X   X   X   X
Table entry mixture X   X   X   X   X   X   X   X   X   X   X
Glossary def mixture X   X   X   X   X   X   X   X   X   X   X
Legal notice mixture X   X   X   X   X   X   X   X   X   X   X

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
-->

<!ENTITY % local.component.mix "">  
<!ENTITY % component.mix
"%list.class;|%admon.class; 
|%linespecific.class;|%synop.class; 
|%para.class;|%informal.class; 
|%formal.class;|%compound.class;"
Just InlineGraphic; no InlineEquation.

b. Just Replaceable; no other computer terms.

c. Just Emphasis and Trademark; no other word elements.

d. Just Acronym, Emphasis, and Trademark; no other word elements.
"#PCDATA
[acronym]emphasis[trademark
[link.char.class;
[base.char.class;
[other.char.class:inlinegraphic:inlinemediaobject
[ndxterm.class;  |beginpage
%local.word.char.mix;"

<!ENTITY % local.docinfo.char.mix "">
<!ENTITY % docinfo.char.mix
"#PCDATA
[link.char.class;
[emphasis][trademark
|replaceable
[other.char.class:inlinegraphic:inlinemediaobject
[ndxterm.class;
%local.docinfo.char.mix;">
<!ENTITY % bibliocomponent.mix (see Bibliographic section, below)-->
<!ENTITY % person.ident.mix (see Bibliographic section, below)-->

<!-- Entities for attributes and attribute components .................... -->
<!-- Effectivity attributes .................................................... -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib
"archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
"conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
"conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED">
<!ENTITY % id.req.common.attrib "%id.req.attrib; %lang.attrib; %remap.attrib; %xref.label.attrib; %revision.flag.attrib; %effectivity.attrib; %dir.attrib; %xml-base.attrib; %local.common.attrib;">

<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib "%id.req.attrib; %lang.attrib; %remap.attrib; %xref.label.attrib; %revision.flag.attrib; %effectivity.attrib; %dir.attrib; %xml-base.attrib; %local.common.attrib;">

<!-- Role is included explicitly on each element -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->

<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->

<!-- Format: Notation of the element content, if any -->

<!-- SrcCredit: Information about the source of the Graphic -->

<!-- Width: Same as CALS reprod (desired width) -->

<!-- Depth: Same as CALS reprodep (desired depth) -->

<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means
application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib "
entityref ENTITY#IMPLIED
fileref CDATA#IMPLIED
format(%notation.class;) #IMPLIED
srccredit CDATA#IMPLIED
width CDATA#IMPLIED
contentwidth CDATA#IMPLIED
depth CDATA#IMPLIED
contentdepth CDATA#IMPLIED
align(left |right |center)#IMPLIED
valign(top |middle |bottom)#IMPLIED
scale CDATA#IMPLIED
scalefit %yesorno.attvals;
#IMPLIED
%local.graphics.attrib;" >

<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib "
action (click |double-click |press |seq |simul |other)#IMPLIED
otheraction CDATA#IMPLIED
%local.keyaction.attrib;" >

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->
Bibliographic entities and elements ..................................

The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!ENTITY % local.person.ident.mix "">  
<!ENTITY % person.ident.mix "">
<!ENTITY % keywordset.role.attrib "%role.attrib;">

<!ENTITY % keywordset.element "INCLUDE">
<![keywordset.element;[
<!ELEMENT keywordset %ho; (keyword+)>
|--end of keywordset.element--->]]>

<!ENTITY % keywordset.attlist "INCLUDE">
<![keywordset.attlist;[
<!ATTLIST keywordset
%common.attrib;
%keywordset.role.attrib;
%local.keywordset.attrib;
>]
|--end of keywordset.attlist--->]]>

<!ENTITY % keyword.module "INCLUDE">
<![keyword.module;[
<!ENTITY % local.keyword.attrib "";>
<!ENTITY % keyword.role.attrib "%role.attrib;">

<!ENTITY % keyword.element "INCLUDE">
<![keyword.element;[
<!ELEMENT keyword %ho; (#PCDATA)>
|--end of keyword.element--->]]>

<!ENTITY % keyword.attlist "INCLUDE">
<![keyword.attlist;[
<!ATTLIST keyword
%common.attrib;
%keyword.role.attrib;
%local.keyword.attrib;
>]
|--end of keyword.attlist--->]]>

<!ENTITY % itermset.module "INCLUDE">
<![itermset.module;[
<!ENTITY % local.itermset.attrib "";>
<!ENTITY % itermset.role.attrib "%role.attrib;">

<!ENTITY % itermset.element "INCLUDE">
<![itermset.element;[
<!ELEMENT itermset %ho; (indexterm+)>
|--end of itermset.element--->]]>
Open Source Used In OnPrem2.1 2.2 31953
performance(optional
|required)"required"
%common.attrib;
%substeps.role.attrib;
%local.substeps.attrib;
>
<!--end of substeps.attlist-->]]>
<!--end of substeps.module-->]]>

<!ENTITY % stepalternatives.module "INCLUDE">
<![%stepalternatives.module;[>
<!ENTITY % local.stepalternatives.attrib "">
<!ENTITY % stepalternatives.role.attrib "%role.attrib;">

<!ENTITY % stepalternatives.element "INCLUDE">
<![%stepalternatives.element;[>
<!ELEMENT stepalternatives %ho; (step+)>
<!--end of stepalternatives.element-->]]>

<!-- Performance: Whether (one of) the alternatives must be performed -->
<!-- not #REQUIRED! -->

<!ENTITY % stepalternatives.attlist "INCLUDE">
<![%stepalternatives.attlist;[>
<!ATTLIST stepalternatives
performance(optional
|required)"required"
%common.attrib;
%stepalternatives.role.attrib;
%local.stepalternatives.attrib;
>
<!--end of stepalternatives.attlist-->]]>
<!--end of stepalternatives.module-->]]>
<!--end of procedure.content.module-->]]>

<!-- Sidebar ......................... -->

<!ENTITY % sidebar.content.model "INCLUDE">
<![ %sidebar.content.model; [ >

<!ENTITY % sidebarinfo.module "INCLUDE">
<![ %sidebarinfo.module; [ >
<!ENTITY % local.sidebarinfo.attrib "">
<!ENTITY % sidebarinfo.role.attrib "%role.attrib;">

<!ENTITY % sidebarinfo.element "INCLUDE">
<![ %sidebarinfo.element; [ >
<!ELEMENT sidebarinfo %ho; ((%info.class;)+)
<!ENTITY % blockquote.module "INCLUDE">
<![blockquote.module:]

<!ENTITY % local.blockquote.attrib "">
<!ENTITY % blockquote.role.attrib "%role.attrib;">

<!ENTITY % blockquote.element "INCLUDE">
<![blockquote.element:]
ELEMENT blockquote %ho; (blockinfo?, title?, attribution?, (%component.mix;)+)
    %blockquote.exclusion;
<![--end of blockquote.element--]]>

<!ENTITY % blockquote.attlist "INCLUDE">
<![blockquote.attlist:]
ATTLIST blockquote
%common.attrib;
%blockquote.role.attrib;
%local.blockquote.attrib;
>
<![--end of blockquote.attlist--]]>

<!ENTITY % attribution.module "INCLUDE">
<![attribution.module:]
<!ENTITY % local.attribution.attrib "">
<!ENTITY % attribution.role.attrib "%role.attrib;">

<!ENTITY % attribution.element "INCLUDE">
<![attribution.element:]
ELEMENT attribution %ho; (%para.char.mix;)*
<![--end of attribution.element--]]>

<!ENTITY % attribution.attlist "INCLUDE">
<![attribution.attlist:]
ATTLIST attribution
%common.attrib;
%attribution.role.attrib;
%local.attribution.attrib;
>
<![--end of attribution.attlist--]]>

<!ENTITY % bridgehead.module "INCLUDE">
<![bridgehead.module:]
<!ENTITY % local.bridgehead.attrib "">

Open Source Used In OnPrem2.1 2.2 31967
<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee -->

<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso -->

<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso -->
<!-- ItemizedList and OrderedList ..... -->

<!--end of itemizedlist.element-->

<!-- Spacing: Whether the vertical space in the list should be compressed -->

<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!--end of itemizedlist.attlist-->

<!--end of itemizedlist.module-->

<!--end of orderedlist.element-->

<!--end of orderedlist.attlist-->

<!--end of orderedlist.module-->

<!--end of orderedlist.element-->
<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;
<!ATTLIST orderedlist
    numeration(arabic | upperalpha | loweralpha | upperroman | lowerroman) #IMPLIED
    inheritnum(inherit | ignore) "ignore"
    continuation(continues | restarts) "restarts"
    spacing(normal | compact) #IMPLIED
    %common.attrib;
    %orderedlist.role.attrib;
    %local.orderedlist.attrib;
>]
<!--end of orderedlist.attlist-->
<!--end of orderedlist.module-->

<!ENTITY % listitem.module "INCLUDE">
<![%listitem.module;
<!ENTITY % local.listitem.attrib "">
<!ENTITY % listitem.role.attrib "%role.attrib;">

<!ENTITY % listitem.element "INCLUDE">
<![%listitem.element;
<!ELEMENT listitem %ho; ((%component.mix;)+)
<!--end of listitem.element-->

<!-- Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->
Open Source Used In OnPrem2.1 2.2 31979
<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;]
<!ENTITY % simplelist.module "INCLUDE">
<![%simplelist.module;]
<!ENTITY % local.simplelist.attrib ""/>
<!ENTITY % simplelist.role.attrib "%role.attrib;">

<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;]
<!ELEMENT simplelist %ho; (member+)>

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;]
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline #IMPLIED
[vert
[horiz]"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module;]
<!ENTITY % local.member.attrib ""/>
<!ENTITY % member.role.attrib "%role.attrib;">

<!ENTITY % member.element "INCLUDE">
<![%member.element;]
<!ELEMENT member %ho; (%para.char.mix;)*>
<!--end of member.element-->]]>
<!ENTITY % member.attlist "INCLUDE">
<![member.attlist;]
<!ATTLIST member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>
<!-- end of member.attlist-->
<!-- end of member.module-->
<!-- end of simplelist.content.module-->

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![variablelist.content.module;]
<!ENTITY % variablelist.module "INCLUDE">
<![variablelist.module;]
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "%role.attrib;">

<!ENTITY % variablelist.attlist "INCLUDE">
<![variablelist.attlist;]
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?,
  (%listpreamble.mix;)*, varlistentry+)
<!-- end of variablelist.element-->

<!ENTITY % variablelist.element "INCLUDE">
<![variablelist.element;]
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?,
  (%listpreamble.mix;)*, varlistentry+)
<!-- end of variablelist.element-->

<!ENTITY % varlistentry.module "INCLUDE">
<![varlistentry.module;]
<!ENTITY % local.varlistentry.attrib "">
<!ENTITY % varlistentry.role.attrib "%role.attrib;">

<!-- TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![variablelist.content.module;]
<!ENTITY % variablelist.module "INCLUDE">
<![variablelist.module;]
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "%role.attrib;">

<!ENTITY % variablelist.attlist "INCLUDE">
<![variablelist.attlist;]
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?,
  (%listpreamble.mix;)*, varlistentry+)
<!-- end of variablelist.element-->

<!ENTITY % variablelist.element "INCLUDE">
<![variablelist.element;]
<!ELEMENT variablelist %ho; (blockinfo?, (%formalobject.title.content;)?,
  (%listpreamble.mix;)*, varlistentry+)
<!-- end of variablelist.element-->

<!ENTITY % varlistentry.module "INCLUDE">
<![varlistentry.module;]
<!ENTITY % local.varlistentry.attrib "">
<!ENTITY % varlistentry.role.attrib "%role.attrib;">

Open Source Used In OnPrem2.1 2.2 31981
<!ENTITY % varlistentry.element "INCLUDE">
<![%varlistentry.element;[
<ELEMENT varlistentry %ho; (term+, listitem)>
<!--end of varlistentry.element-->]]>

<!ENTITY % varlistentry.attlist "INCLUDE">
<![%varlistentry.attlist;[
<!ATTLIST varlistentry
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
>
<!--end of varlistentry.attlist-->]]>
<!--end of varlistentry.module-->
]

<!ENTITY % term.module "INCLUDE">
<![%term.module;]
<!ENTITY % local.term.attrib "">
<!ENTITY % term.role.attrib "%role.attrib;"> 

<!ENTITY % term.element "INCLUDE">
<![%term.element;[
<!ELEMENT term %ho; (%para.char.mix;)*>
<!--end of term.element-->]]>
<!ENTITY % term.attlist "INCLUDE">
<![%term.attlist;[
<!ATTLIST term
%common.attrib;
%term.role.attrib;
%local.term.attrib;
>
<!--end of term.attlist-->]]>
<!--end of term.module-->
]

<!ENTITY % calloutlist.content.module "INCLUDE">
<![%calloutlist.content.module;[
<!ENTITY % calloutlist.module "INCLUDE">
<![%calloutlist.module;[
<!ENTITY % local.calloutlist.attrib "">
<!ENTITY % calloutlist.role.attrib "%role.attrib;"> 

<!ENTITY % calloutlist.element "INCLUDE">

Open Source Used In OnPrem2.1 2.2 31982
AreaRefs: IDs of one or more Areas or AreaSets described by this Callout -->

Objects .............................................................. -->

Examples etc. ............................... -->

<!ENTITY % example.module "INCLUDE">
<![%example.module;]
<![%local.example.attrib ""]>
<!ENTITY % programlistingco.element "INCLUDE">
<![%programlistingco.element;[
<!ELEMENT programlistingco %ho; (areaspec, programlisting, calloutlist*)>
<!!--end of programlistingco.element-->]]>

<!ENTITY % programlistingco.attlist "INCLUDE">
<![%programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.role.attrib;
%local.programlistingco.attrib;
>]
<!!--end of programlistingco.attlist-->]]>

<!ENTITY % areaspec.content.module "INCLUDE">
<![%areaspec.content.module;[
<!ENTITY % areaspec.module "INCLUDE">
<![%areaspec.module;[
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "role.attrib;">

<!ENTITY % areaspec.element "INCLUDE">
<![%areaspec.element;[
<!ELEMENT areaspec %ho; ((area|areaset)+)>]
<!!--end of areaspec.element-->]]>

<!!-- Units: global unit of measure in which coordinates in
this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number
at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline
to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending
points of area in "linespecific" content that starts at
first position and ends at second position (including the
beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute

---

Open Source Used In OnPrem2.1 2.2 31985
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;[
<!ATTLIST areaspec
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>  
<!--end of areaspec.attlist--> ]]>  
<!--end of areaspec.module--> ]]>  

<!ENTITY % area.module "INCLUDE">
<![%area.module;[
<!ENTITY % local.area.attrib "">  
<!ENTITY % area.role.attrib "%role.attrib;">  

<!ENTITY % area.element "INCLUDE">
<![%area.element;[
<!ELEMENT area %ho; EMPTY>  
<!--end of area.element--> ]]>  

<!-- bug number/symbol override or initialization -->  
<!-- to any related information -->  
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec -->  
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist;[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
linerrange
linecolumnpair
[other]#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.area.attrib;
>
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module;[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">}

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element;[
<!ELEMENT areaset %ho; (area+)>
<!--end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist;[
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerrange
|linecolumnpair
[other]#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.area.attrib;
>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!--end of areaset.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
<![%programlisting.module;[
<!ENTITY % screenco.element "INCLUDE">
<!ENTITY % screenco.element:[
<!ELEMENT screenco %ho; (areaspec, screen, calloutlist*)>
<!!-- end of screenco.element-->]]>

<!ENTITY % screenco.attlist "INCLUDE">
<!ENTITY % screenco.attlist:[
<!ATTLIST screenco %common.attrib;
%screenco.role.attrib;
%local.screenco.attrib;
>
<!!-- end of screenco.attlist-->]]>
<!ENTITY % screen.module "INCLUDE">
<!ENTITY % local.screen.attrib "">
<!ENTITY % screen.role.attrib "%role.attrib;">

<!ENTITY % screen.element "INCLUDE">
<!ENTITY % screen.element:[
<!ELEMENT screen %ho; (%para.char.mix;|co|coref|textobject|lineannotation)*>
<!!-- end of screen.element-->]]>

<!ENTITY % screen.attlist "INCLUDE">
<!ENTITY % screen.attlist:[
<!ATTLIST screen %width.attrib;
%linespecific.attrib;
%common.attrib;
%screenco.role.attrib;
%local.screen.attrib;
>
<!!-- end of screen.attlist-->]]>
<!ENTITY % screen.module "INCLUDE">
<!ENTITY % local.screenshot.attrib "">
<!ENTITY % screenshot.role.attrib "%role.attrib;">

<!ENTITY % screenshot.element "INCLUDE">
<!ENTITY % screenshot.element:[
<!ATTLIST screen %width.attrib;
%linespecific.attrib;
%common.attrib;
%screenco.role.attrib;
%local.screen.attrib;
>
<!!-- end of screen.module-->]]>
<br>
<!-- AreaSpec (defined above)-->-
<!-- CalloutList (defined above in Lists)-->-
<!!-- end of screen.module-->]]>
<br>
<!ENTITY % screenshot.content.module "INCLUDE">
<!ENTITY % screenshot.content.module:[
<!ENTITY % screenshot.module "INCLUDE">
<!ENTITY % local.screenshot.attrib "">
<!ENTITY % screenshot.role.attrib "%role.attrib;">

<!ENTITY % screenshot.element "INCLUDE">
<!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">
<!-- Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->

<!--end of figure.attlist-->

<!--end of figure.module-->

<!--end of informalfigure.element-->

<!--end of informalfigure.attlist-->

Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->

<!--end of informalfigure.attlist-->

<!--end of informalfigure.module-->

<!--end of informalfigure.element-->

<!--end of informalfigure.attlist-->

<!-- Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->

<!--end of figure.attlist-->

<!--end of figure.module-->

<!--end of figure.element-->

<!--end of figure.attlist-->
<!ENTITY % imageobjectco.role.attrib "%role.attrib;">  

<!ENTITY % imageobjectco.element "INCLUDE">  
<![ %imageobjectco.element; [  
<!ELEMENT imageobjectco %ho; (areaspec, imageobject, calloutlist*)>  
<!--end of imageobjectco.element--->]]>  

<!ENTITY % imageobjectco.attlist "INCLUDE">  
<![ %imageobjectco.attlist; [  
<!ATTLIST imageobjectco  
%common.attrib;  
%imageobjectco.role.attrib;  
%local.imageobjectco.attrib;  
>  
<!--end of imageobjectco.attlist--->]]>  
<!--end of mediaobject.content.module--->]]>  

<!-- Equations ......................... -->  

<!-- This PE provides a mechanism for replacing equation content, -->  
<!-- perhaps adding a new or different model (e.g., MathML) -->  
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+))">  
<!ENTITY % inlineequation.content "(alt?, (graphic+|linemediaobject+))">  

<!ENTITY % equation.module "INCLUDE">  
<![ %equation.module;[  
<!ENTITY % local.equation.attrib "">  
<!ENTITY % equation.role.attrib "%role.attrib;">  

<!ENTITY % equation.element "INCLUDE">  
<![ %equation.element;[  
<!ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?,  
(informalequation | %equation.content;))>  
<!--end of equation.element--->]]>  

<!ENTITY % equation.attlist "INCLUDE">  
<![ %equation.attlist;[  
<!ATTLIST equation  
floatstyleCDATA#IMPLIED  
%label.attrib;  
%common.attrib;  
%equation.role.attrib;  
%local.equation.attrib;  
>  
<!--end of equation.attlist--->]]>  
<!--end of equation.module--->]]>
<!ELEMENT alt %ho; (#PCDATA)>
<!--end of alt.element-->]]>

<!ENTITY % alt.attlist "INCLUDE">
<![[%alt.attlist;[
<!ATTLIST alt
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
>]
<!--end of alt.attlist-->]]>
<!--end of alt.module-->]]>

<!-- Tables ......................... -->

<!ENTITY % table.module "INCLUDE">
<![ [%table.module;[
<!ENTITY % cals.table.module "INCLUDE">
<![ [%cals.table.module;[
<!ENTITY % exchange.table.module "IGNORE">
]]>
<!ENTITY % exchange.table.module "INCLUDE">

<!ENTITY % allow.html.tables "INCLUDE">
<![ [%allow.html.tables;[
<!-- ============= allow.html.tables -->
<!-- xhtmltbl.mod defines HTML tables and sets parameter entities so that, when the CALS table module is read, we end up allowing any table to be CALS or HTML. i.e. This include must come first! -->
<!-- ============= allow.html.tables -->

<!ENTITY % htmltbl PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN" "htmltblx.mod">
<![ htmltbl;]]>

<!ENTITY % tables.role.attrib "%role.attrib;">
<![ [%cals.table.module;[
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt " floatstyleCDATA#IMPLIED
<!ENTITY % tbl.table.mdl
"(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*,
textobject*,
  (graphic+|mediaobject+|tgroup+))">

<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*">

<!-- Reference OASIS Exchange Table Model -->
<!ENTITY % tablemodel
PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">
]]>
%tablemodel;

<!end of table.module-->
]]>

<!ENTITY % informaltable.module "INCLUDE">
<![%%informaltable.module:]

<!ENTITY % local.informaltable.attrib "">

<!-- Note that InformalTable is dependent on some of the entity
declarations that customize Table. -->

<!ENTITY % informaltable.element "INCLUDE">
<![%%informaltable.element:]
<!ELEMENT informaltable %ho; (blockinfo?, (%informal.tbl.table.mdl;))>
<![end of informaltable.element-->
]]>

<!-- Frame, Colsep, and Rowsep must be repeated because
they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry,
Orient, PgWide -->
<!-- includes Label -->
<!-- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE">
<![%%informaltable.attlist:]
<!ATTLIST informaltable
frame(%tbl.frame.attval);#IMPLIED
colsep%yesorno.attvals;#IMPLIED
rowsep%yesorno.attvals;#IMPLIED

Open Source Used In OnPrem 2.1 2.2 32004
<!-- Synopses ................................................. -->

<!ENTITY % synopsis.module "INCLUDE">
<!ENTITY % synopsis.module: [
<!ENTITY % local.synopsis.attrib "">
<!ENTITY % synopsis.role.attrib "%role.attrib;">]

<!ENTITY % synopsis.element "INCLUDE">
<!ENTITY % synopsis.element:[
<!ELEMENT synopsis %ho; (%para.char.mix;|graphic|mediaobject|co|coref|textobject|lineannotation)*>
<!ELEMENT synopsis %ho; (%para.char.mix;|graphic|mediaobject|co|coref|textobject|lineannotation)>]

<!ENTITY % synopsis.attlist "INCLUDE">
<!ENTITY % synopsis.attlist:[
<!ATTLIST synopsis
%label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsis.role.attrib;
%local.synopsis.attrib;
>
<!-- CmdSynopsis ...................... -->

<!ENTITY % cmdsynopsis.content.module "INCLUDE">
<!ENTITY % cmdsynopsis.content.module:[
<!ENTITY % cmdsynopsis.module "INCLUDE">
<!ENTITY % cmdsynopsis.module: [
<!ENTITY % local.cmdsynopsis.attrib ">"
<!ENTITY % cmdsynopsis.role.attrib "%role.attrib;">]

<!ENTITY % cmdsynopsis.element "INCLUDE">
<!ENTITY % cmdsynopsis.element:[
<!ELEMENT cmdsynopsis %ho; ((command | arg | group | sbr)+, synopfragment*)>]

<!-- Sepchar: Character that should separate command and all top-level arguments; alternate value might be e.g., &Delta; -->
<!ENTITY % group.module "INCLUDE">
<![%group.module;[

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;"> 

<!ENTITY % group.element "INCLUDE">
<![%group.element;[
 <!ELEMENT group %ho; ((arg | group | option | synopfragmentref | replaceable | sbr)+)>
<!--end of group.element--]
]]>
</!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1,g2,g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]], or ReqMult (must supply one or more, e.g. { {g1|g2|g3} }) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...) -->

<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist;[
 <ATTLIST group
  choice(opt |req | plain) 'opt' 
  rep(norepeat |repeat)'norepeat'
  %common.attrib;
  %group.role.attrib;
  %local.group.attrib;
  >
</!--end of group.attlist-->]
</!--end of group.module-->]]>

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;[

<!ENTITY % local.sbr.attrib "">
<!ENTITY % sbr.role.attrib "%role.attrib;"> 

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;[
<!ENTITY % sbr.attlist "INCLUDE">
<![sbr.attlist;">
<!ATTLIST sbr
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->]]>
<!--end of sbr.module-->]]>

<!ENTITY % synopfragmentref.module "INCLUDE">
<![synopfragmentref.module;]
<!ENTITY % local.synopfragmentref.attrib "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;"> 

<!ENTITY % synopfragmentref.element "INCLUDE">
<![synopfragmentref.element;]
<!ELEMENT synopfragmentref %ho; (#PCDATA)>
<!--end of synopfragmentref.element-->]]>

<stdio-- to SynopFragment of complex synopsis
material for separate referencing -->

<!ENTITY % synopfragmentref.attlist "INCLUDE">
<![synopfragmentref.attlist;]
<!ATTLIST synopfragmentref
%linkendreq.attrib;%common.attrib;
%synopfragmentref.role.attrib;
%local.synopfragmentref.attrib;
>
<!--end of synopfragmentref.attlist-->]]>
<!--end of synopfragmentref.module-->]]>

<!ENTITY % synopfragment.module "INCLUDE">
<![synopfragment.module;]
<!ENTITY % local.synopfragment.attrib "">
<!ENTITY % synopfragment.role.attrib "%role.attrib;"> 

<!ENTITY % synopfragment.element "INCLUDE">
<![synopfragment.element;]
<!ELEMENT synopfragment %ho; ((arg | group)+)>
<!--end of synopfragment.element-->]]>

<!ENTITY % synopfragment.attlist "INCLUDE">
<!ENTITY % methodsynopsis.attlist "INCLUDE">
<![%methodsynopsis.attlist;[
<!ATTLIST methodsynopsis
language CDATA #IMPLIED
%common.attrib;
%methodsynopsis.role.attrib;
%local.methodsynopsis.attrib;
> 
<!!--end of methodsynopsis.attlist--]]>
<!!--end of methodsynopsis.module--]]>

<!ENTITY % methodname.module "INCLUDE">
<![%methodname.module;[
<!ENTITY % local.methodname.attrib "">
<!ENTITY % methodname.role.attrib '%$role.attrib;">

<!ENTITY % methodname.element "INCLUDE">
<![%methodname.element;[
<!ELEMENT methodname %ho; (%smallcptr.char.mix;)*>
<!--end of methodname.element-->
]]>
<!ENTITY % methodname.attlist "INCLUDE">
<![%methodname.attlist;[
<!ATTLIST methodname
%common.attrib;
%methodname.role.attrib;
%local.methodname.attrib;
> 
<!!--end of methodname.attlist--]]>
<!!--end of methodname.module--]]>

<!ENTITY % methodparam.module "INCLUDE">
<![%methodparam.module;[
<!ENTITY % local.methodparam.attrib ""> 
<!ENTITY % methodparam.role.attrib '%$role.attrib;'>

<!ENTITY % methodparam.element "INCLUDE">
<![%methodparam.element;[
<!ELEMENT methodparam %ho; (modifier*,
type?,
((parameter,initializer?)[funcparams],
modifier*)>
<!!--end of methodparam.element--]]>

<!ENTITY % methodparam.attlist "INCLUDE">
<![%methodparam.attlist;[
<!ATTLIST methodparam
choice(opt
The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.

<!ENTITY % docinfo.content.module "INCLUDE">
<!ENTITY % ackno.module "INCLUDE">
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;"> 
<!ENTITY % ackno.element "INCLUDE">
<!ENTITY % ackno.attlist "INCLUDE">
<!ATTLIST ackno 
  %common.attrib;
  %ackno.role.attrib;
  %local.ackno.attrib;
  > 
  <!--end of ackno.attlist-->]]>
<!--end of ackno.module-->]]>
<!--end of classsynopsis.content.module-->]]>

<ENTITY%docinfo.content.module "INCLUDE">
<!ENTITY%ackno.module:[
<!ENTITY%local.ackno.attrib " "
<!ENTITY%ackno.role.attrib "%role.attrib;"> 
<!ENTITY%ackno.element "INCLUDE">
<!ENTITY%ackno.attlist "INCLUDE">
<!ATTLIST ackno 
  %common.attrib;
  %ackno.role.attrib;
  %local.ackno.attrib;
  > 
  <!--end of ackno.attlist-->]]>
<!--end of ackno.module-->]]>
<!-- Address ....................... -->
<!ENTITY % city.attlist "INCLUDE">
<![city.attlist:]
<!ATTLIST city
%common.attrib;
%city.role.attrib;
%local.city.attrib;
>
<!--end of city.attlist--]]>
<!--end of city.module--]]>

<!ENTITY % state.module "INCLUDE">
<![state.module:]
<!ENTITY % local.state.attrib "">
<!ENTITY % state.role.attrib "%role.attrib;"> 

<!ENTITY % state.element "INCLUDE">
<![state.element:]
<!ELEMENT state %ho; (%docinfo.char.mix;)*>
<!--end of state.element--]]>

<!ENTITY % state.attlist "INCLUDE">
<![state.attlist:]
<!ATTLIST state
%common.attrib;
%state.role.attrib;
%local.state.attrib;
>
<!--end of state.attlist--]]>
<!--end of state.module--]]>

<!ENTITY % country.module "INCLUDE">
<![country.module:]
<!ENTITY % local.country.attrib "">
<!ENTITY % country.role.attrib "%role.attrib;"> 

<!ENTITY % country.element "INCLUDE">
<![country.element:]
<!ELEMENT country %ho; (%docinfo.char.mix;)*>
<!--end of country.element--]]>

<!ENTITY % country.attlist "INCLUDE">
<![country.attlist:]
<!ATTLIST country
%common.attrib;
%country.role.attrib;
%local.country.attrib;
>
<!--end of country.attlist--]]>
<!ENTITY % local.contractnum.attrib "">
<!ENTITY % contractnum.role.attrib "%role.attrib;">

<!ENTITY % contractnum.element "INCLUDE">
<![CDATA[
<!ELEMENT contractnum %ho; (%docinfo.char.mix;)*>
<!--end of contractnum.element-->]]>

<!ENTITY % contractnum.attlist "INCLUDE">
<![CDATA[
<!ATTLIST contractnum
%common.attrib;
%contractnum.role.attrib;
%local.contractnum.attrib;
>
<!--end of contractnum.attlist-->]]>

<!-- ContractSponsor .................. -->

<!ENTITY % contractsponsor.module "INCLUDE">
<![CDATA[
<!ENTITY % local.contractsponsor.attrib "">
<!ENTITY % contractsponsor.role.attrib "%role.attrib;">

<!ENTITY % contractsponsor.element "INCLUDE">
<![CDATA[
<!ELEMENT contractsponsor %ho; (%docinfo.char.mix;)*>
<!--end of contractsponsor.element-->]]>

<!ENTITY % contractsponsor.attlist "INCLUDE">
<![CDATA[
<!ATTLIST contractsponsor
%common.attrib;
%contractsponsor.role.attrib;
%local.contractsponsor.attrib;
>
<!--end of contractsponsor.attlist-->]]>

<!-- Copyright ........................ -->

<!ENTITY % copyright.content.module "INCLUDE">
<![CDATA[
<!ENTITY % copyright.module "INCLUDE">
<![CDATA[
<!ENTITY % local.copyright.attrib "">
<!ENTITY % copyright.role.attrib "%role.attrib;">

<!ENTITY % copyright.content.module "INCLUDE">
<![CDATA[
<!ENTITY % copyright.module "INCLUDE">
<![CDATA[
<!ENTITY % local.copyright.attrib "">
<!ENTITY % copyright.role.attrib "%role.attrib;">

---

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<!-- BiblioId ................. -->
<!ENTITY % biblio.class.attrib "class(uri
doibisbn
[libraryofcongress
|pubnumber
|other)#IMPLIED
otherclassCDATA#IMPLIED"
>

<!ENTITY % biblio.module "INCLUDE">
<![%biblio.module:]
<!ENTITY % local.biblioid.attrib "">
<!ENTITY % biblioid.role.attrib "%role.attrib;">

<!ENTITY % biblioid.element "INCLUDE">
<![%biblio.element:
<!ELEMENT biblioid %ho; (%docinfo.char.mix;)*>
<!--end of biblioid.element-->
]>]

<!ENTITY % biblioid.attlist "INCLUDE">
<![%biblio.attlist:
<!ATTLIST biblioid
%biblio.class.attrib;
%common.attrib;
%biblioid.role.attrib;
%local.biblioid.attrib;
>
<!-end of biblioid.attlist-->]]>
<!-end of biblioid.module-->]]>

<!-- CiteBiblioid ................. -->

<!ENTITY % citebiblioid.module "INCLUDE">
<![%citebiblioid.module:
<!ENTITY % local.citebiblioid.attrib "">
<!ENTITY % citebiblioid.role.attrib "%role.attrib;">

<!ENTITY % citebiblioid.element "INCLUDE">
<![%citebiblioid.element:
<!ELEMENT citebiblioid %ho; (%docinfo.char.mix;)*>
<!-end of citebiblioid.element-->]]>
<!-end of citebiblioid.module-->]]>

<!ENTITY % citebiblioid.attlist "INCLUDE">
<![%citebiblioid.attlist:
<!ATTLIST citebiblioid
-->
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
    <head></head>
    <body>

    <h1>Open Source Used In OnPrem2.1 2.2 32042</h1>

    <p>references</p>
    <p>isformatof</p>
    <p>hasformat</p>
    <p>othertype</p>

    %local.bibliorelation.types;) #IMPLIED

    othertypeCDATA#IMPLIED

    &gt;

    <!-- BiblioCoverage ................. -->

    </body>
</html>
%local.bibliocoverage.attrib;
>
<!--end of bibliocoverage.attlist-->]]>
<!--end of bibliocoverage.module-->]]>

<!-- InvPartNumber .................... -->

<!ENTITY % invpartnumber.module "INCLUDE">
<![%invpartnumber.module;[
<!ENTITY % local.invpartnumber.attrib "">
<!ENTITY % invpartnumber.role.attrib "%role.attrib;"> 

<!ENTITY % invpartnumber.element "INCLUDE">
<![%invpartnumber.element;[
<!ELEMENT invpartnumber %ho; (%docinfo.char.mix;)*>
<!--end of invpartnumber.element-->]]>

<!ENTITY % invpartnumber.attlist "INCLUDE">
<![%invpartnumber.attlist;[
<!ATTLIST invpartnumber 
%common.attrib; 
%invpartnumber.role.attrib; 
%local.invpartnumber.attrib;>
<!--end of invpartnumber.attlist-->]]>
<!--end of invpartnumber.module-->]]>

<!-- IssueNum ......................... -->

<!ENTITY % issuenum.module "INCLUDE">
<![%issuenum.module;[
<!ENTITY % local.issuenum.attrib "">
<!ENTITY % issuenum.role.attrib "%role.attrib;"> 

<!ENTITY % issuenum.element "INCLUDE">
<![%issuenum.element;[
<!ELEMENT issuenum %ho; (%docinfo.char.mix;)*>
<!--end of issuenum.element-->]]>

<!ENTITY % issuenum.attlist "INCLUDE">
<![%issuenum.attlist;[
<!ATTLIST issuenum 
%common.attrib; 
%issuenum.role.attrib; 
%local.issuenum.attrib;>
<!--end of issuenum.attlist-->]]>
<!--end of issuenum.module-->]]>
<!-- PrintHistory ..................... -->

<!-- ProductName ...................... -->

<!-- Entity % surname.module "INCLUDE" -->
<![%surname.module;[
<!ENTITY % surname.role.attrib "%role.attrib;">
<!ENTITY % surname.element "INCLUDE">
<![%surname.element;[
<!ELEMENT surname %ho; (%docinfo.char.mix;)*>
<!--end of surname.element-->
]]>
<!ENTITY % surname.attlist "INCLUDE">
<![%surname.attlist;[
<!ATTLIST surname
%common.attrib;
%surname.role.attrib;
%local.surname.attrib;
> 
<!--end of surname.attlist-->]]>
<!ENTITY % person.ident.module "INCLUDE">
<!ENTITY % printhistory.module "INCLUDE">
<![%printhistory.module;[
<!ENTITY % local.printhistory.attrib "">
<!ENTITY % printhistory.roleattrib "%role.attrib;"> 
<!ENTITY % printhistory.element "INCLUDE">
<![%printhistory.element;[
<!ELEMENT printhistory %ho; ((%para.class;)+)>
<!--end of printhistory.element-->
]]>
<!ENTITY % printhistory.attlist "INCLUDE">
<![%printhistory.attlist;[
<!ATTLIST printhistory
%common.attrib;
%printhistory.role.attrib;
%local.printhistory.attrib;
> 
<!--end of printhistory.attlist-->]]>
<!ENTITY % productname.module "INCLUDE">
<![%productname.module;[
<!ENTITY % local.productname.attrib "">
<!ENTITY % productname.roleattrib "%role.attrib;"> 
<!ENTITY % productname.element "INCLUDE">
[constraint
decl
user
group)#IMPLIED

%moreinfo.attrib;
%common.attrib;
%database.role.attrib;
%local.database.attrib;
>
<!--end of database.attlist-->
<!--end of database.module-->

<!ENTITY % email.module "INCLUDE">
<![email.module:]
<!ENTITY % local.email.attrib "">
<!ENTITY % email.role.attrib "%role.attrib;">

<!ENTITY % email.element "INCLUDE">
<![email.element:]
<!ELEMENT email %ho; (%docinfo.char.mix;)*>
<!--end of email.element-->

<!ENTITY % email.attlist "INCLUDE">
<![email.attlist:]
<!ATTLIST email
%common.attrib;
%email.role.attrib;
%local.email.attrib;
>
<!--end of email.attlist-->
<!--end of email.module-->

<!ENTITY % envar.module "INCLUDE">
<![envar.module:]
<!ENTITY % local.envar.attrib "">
<!ENTITY % envar.role.attrib "%role.attrib;">

<!ENTITY % envar.element "INCLUDE">
<![envar.element:]
<!ELEMENT envar %ho; (%smallcptr.char.mix;)*>
<!--end of envar.element-->

<!ENTITY % envar.attlist "INCLUDE">
<![envar.attlist:]
<!ATTLIST envar
%common.attrib;
%envar.role.attrib;
%local.envar.attrib;
<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which file can be found -->

<!ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;[
<!ATTLIST filename
class(headerfile
|partition
|devicefile
|libraryfile
|directory
|extension
|symlink) #IMPLIED
pathCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->]]>
<!--end of filename.module-->]]>

<!ENTITY % function.module "INCLUDE">
<![%function.module;[
<!ENTITY % local.function.attrib "">
<!ENTITY % function.role.attrib "%role.attrib;">

<!ENTITY % function.element "INCLUDE">
<![%function.element;[
<!ELEMENT function %ho; (%cptr.char.mix;)*>
<!--end of function.element-->]]>

<!ENTITY % function.attlist "INCLUDE">
<![%function.attlist;[
<!ATTLIST function
%moreinfo.attrib;
%common.attrib;
%function.role.attrib;
%local.function.attrib;
>
<!--end of function.attlist-->]]>
<!--end of function.module-->]]>

<!ENTITY % guibutton.module "INCLUDE">
<![%guibutton.module;[
<!ENTITY % local.guibutton.attrib "">

<!ENTITY % menuchoice.attlist "INCLUDE">
<!DOCTYPE menuchoice SYSTEM "menuchoice.dtd">
<!ENTITY % shortcut.module "INCLUDE">
<!ENTITY % localshortcut.attrib "">
<!ENTITY % shortcut.role.attrib "%
 role.attrib;">
<!ENTITY % mousebutton.module "INCLUDE">
<!ENTITY % localmousebutton.attrib "">
<!ENTITY % mousebutton.role.attrib "%
 role.attrib;">

<!ELEMENT shortcut %ho; ((keycap|keycombo|keysym|mousebutton)+)>
<!ELEMENT mousebutton %ho; (%smallcptr.char.mix;)*>
%local.option.attrib;
>
<!--end of option.attrib-->
<!--end of option.module-->

<!ENTITY % optional.module "INCLUDE">
<![%optional.module;[  
<!ENTITY % optional.role.attrib "%role.attrib;">  
<!ENTITY % local.option.attrib "">
<!ENTITY % optional.attlist "INCLUDE">
<![%optional.attlist;
<!ATTLIST optional %common.attrib;  
%optional.role.attrib;  
%local.option.attrib;
>
<!--end of optional.attlist-->
<!--end of optional.module-->

<!ENTITY % parameter.module "INCLUDE">
<![%parameter.module;[  
<!ENTITY % parameter.role.attrib "%role.attrib;">  
<!ENTITY % local.parameter.attrib "">
<!ENTITY % parameter.attlist "INCLUDE">
<![%parameter.attlist;
<!ATTLIST parameter class (command |function |option)#IMPLIED  
%moreinfo.attrib;  
%common.attrib;  
%parameter.role.attrib;  
%local.parameter.attrib;
<!ENTITY % structfield.element "INCLUDE">
<![%structfield.element;]
<!ELEMENT structfield %ho; (%smallcptr.char.mix;)*>
<!--end of structfield.element-->
]

<!ENTITY % structfield.attlist "INCLUDE">
<![%structfield.attlist;]
<!ATTLIST structfield
%common.attrib;
%structfield.role.attrib;
%local.structfield.attrib;
>
<!--end of structfield.attlist-->
]

<!ENTITY % structname.module "INCLUDE">
<![%structname.module;]
<!ENTITY % local.structname.attrib "">
<!ENTITY % structname.role.attrib "%role.attrib;">  
<!ENTITY % structname.element "INCLUDE">
<![%structname.element;]
<!ELEMENT structname %ho; (%smallcptr.char.mix;)*>
<!--end of structname.element-->
]

<!ENTITY % structname.attlist "INCLUDE">
<![%structname.attlist;]
<!ATTLIST structname
%common.attrib;
%structname.role.attrib;
%local.structname.attrib;
>
<!--end of structname.attlist-->
]

<!ENTITY % symbol.module "INCLUDE">
<![%symbol.module;]
<!ENTITY % local.symbol.attrib "">
<!ENTITY % symbol.role.attrib "%role.attrib;">  
<!ENTITY % symbol.element "INCLUDE">
<![%symbol.element;]
<!ELEMENT symbol %ho; (%smallcptr.char.mix;)*>
<!--end of symbol.element-->
]

<!-- Class: Type of symbol; no default -->
<!ATTLIST foreignphrase
%common.attrib;
%foreignphrase.role.attrib;
%local.foreignphrase.attrib;
>
<!--end of foreignphrase.attlist-->
<!--end of foreignphrase.module-->

<!ENTITY % glossterm.module "INCLUDE">
<![glossterm.module;]
<!ENTITY % local.glossterm.attrib "">
<!ENTITY % glossterm.role.attrib "%role.attrib;">

<!ENTITY % glossterm.element "INCLUDE">
<![glossterm.element;[;
<!ELEMENT glossterm %ho; (%para.char.mix;)*
%glossterm.exclusion;>
<!--end of glossterm.element-->

<!-- to GlossEntry if GlossTerm used in text -->
<!-- BaseForm: Provides the form of GlossTerm to be used for indexing -->

<!ENTITY % glossterm.attlist "INCLUDE">
<![glossterm.attlist;[;
<!ATTLIST glossterm
baseformCDATA#IMPLIED
%linkend.attrib;
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<!--end of glossterm.attlist-->
<!--end of glossterm.module-->

<!ENTITY % firstterm.module "INCLUDE">
<![firstterm.module;[;
<!ENTITY % local.firstterm.attrib "">
<!ENTITY % firstterm.role.attrib "%role.attrib;">

<!ENTITY % firstterm.element "INCLUDE">
<![firstterm.element;[;
<!ELEMENT firstterm %ho; (%para.char.mix;)*
%glossterm.exclusion;>
<!--end of firstterm.element-->

<!-- to GlossEntry or other explanation -->
<!ATTLIST primary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of primary.attlist-->
]>

<!ENTITY % secondary.element "INCLUDE">
<![%secondary.element:]
<!ELEMENT secondary %ho; (%ndxtterm.char.mix;)*>
<!--end of secondary.element-->
]>
<!-- SortAs: Alternate sort string for index sorting, e.g.,
"fourteen" for an element containing "14" -->

<!ENTITY % secondary.attlist "INCLUDE">
<![%secondary.attlist:]
<!ATTLIST secondary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of secondary.attlist-->
]>

<!ENTITY % tertiary.element "INCLUDE">
<![%tertiary.element:]
<!ELEMENT tertiary %ho; (%ndxtterm.char.mix;)*>
<!--end of tertiary.element-->
]>
<!-- SortAs: Alternate sort string for index sorting, e.g.,
"fourteen" for an element containing "14" -->

<!ENTITY % tertiary.attlist "INCLUDE">
<![%tertiary.attlist:]
<!ATTLIST tertiary
sortasCDATA#IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of tertiary.attlist-->
]>

<!ENTITY % seeseealso.module "INCLUDE">
<![%seeseealso.module:]

---

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<!ENTITY % dbhier PUBLIC 
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.4//EN"
"dbhierx.mod">

%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release.
of DocBook.

-->

<!-- .............................. -->
</!-- Entities for module inclusions .............................. -->

<!ENTITY % dbhier.decl.module "IGNORE">
<!ENTITY % dbhier.decl2.module "IGNORE">

<!-- .............................. -->
</!-- Entities for element classes .............................. -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">  

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">  

<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">  

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">  

<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">  

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">  

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">  

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography
%local.nav.class;">  

<!-- Redeclaration placeholder .............................. -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![%dbhier.decl.module;[
<!-- Defining dbhier here makes some buggy XML parsers happy. -->
<!ENTITY % dbhier "">
%dbhier;
<!--end of dbhier.decl.module-->]]>
<!ENTITY % refinline.char.mix "#PCDATA
|%xref.char.class;%gen.char.class;
|%link.char.class;%tech.char.class;
|%base.char.class;%docinfo.char.class;
|%other.char.class;
|%ndxterm.class; |beginpage
%local.refinline.char.mix;">  

<!ENTITY % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix "#PCDATA
|application
%local.refclass.char.mix;"> 

<!-- Redeclaration placeholder 2 .......................................... -->
<![%dbhier.redecl2.module;
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]

<!-- Entities for content models .......................................... -->
<!ENTITY % div.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % bookcomponent.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % sect.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % refsect.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % bookcomponent.content
"((%divcomponent.mix;)+,
 (sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*))
| (sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">  

<!-- ................................................................. -->

<!-- Placement of content models and title types. -->
<!ENTITY % bookcomponent.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % sect.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % refsect.title.content
"title, subtitle?, titleabbrev?">  

<!ENTITY % bookcomponent.content
"(sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">  

<!-- ................................................................. -->

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<!ATTLIST setinfo
contentsIDREFS#IMPLIED
%common.attrib;
%setinfo.role.attrib;
%local.setinfo.attrib;
>
<!--end of setinfo.attlst-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ................................................................. -->
<!-- Book and BookInfo .................................................... -->

<!ENTITY % book.content.module "INCLUDE">
<![%book.content.module:]
<!ENTITY % book.module "INCLUDE">
<![%book.module:]

<!-- ENTITY % local.book.attrib "" -->
<!ENTITY % book.role.attrib "%role.attrib;">

<!-- ENTITY % book.element "INCLUDE" -->
<![%book.element:]
<!ELEMENT book %ho; (%div.title.content;)?, bookinfo?,
(dedication | toc | lot
| glossary | bibliography | preface
| %chapter.class; | reference | part
| %article.class;
| %appendix.class;
| %index.class;
| colophon]*)
%ubiq.inclusion;>
<!--end of inclusion;-->
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->

<!ENTITY % book.attlist "INCLUDE">
<![%book.attlist:]
<!ATTLIST bookfpiCDATA#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%book.role.attrib;
%local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>
<!ENTITY % appendix.attlist "INCLUDE">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % local.appendix.attrib "">
<!ENTITY % chapter.element "INCLUDE">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapter.info.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDE">
<!ENTITY % chapter.module "INCLUDE">
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">&lt;!ENTITY % chapterinfo.attrib "">
<!ENTITY % chapter.attlist "INCLUDE">
<!ENTITY % part.module "INCLUDED">
<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;]
<!ENTITY % label.attrib "">
<!ENTITY % status.attrib "">
<!ENTITY % common.attrib "">
<!ENTITY % sect2.role.attrib "">
<!ENTITY % local.sect2.attrib "">
>
<![--end of sect2.attlist-->]]>
<![--end of sect2.module-->]]>

<![--end of sect2.attlist-->]]>
<![--end of sect2.module-->]]>

<![--end of sect2.attlist-->]]>
<![--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;]
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "">
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "">
<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;]
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*, (((%divcomponent.mix;)+, (%refentry.class;)* | sect4* | simplesect*)) | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<![--end of sect3.element-->]]>

<![--end of sect3.element-->]]>
<![--end of sect3.module-->]]>

<![--end of sect3.element-->]]>
<![--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;]
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "">
<!ENTITY % sect4.role.attrib "">
<!ENTITY % sect4.role.attrib "">

[sect5)#IMPLIED %label.attrib; %status.attrib; %common.attrib; %sect2.role.attrib; %local.sect2.attrib; >
<![--end of sect2.attlist-->]]>
<![--end of sect2.module-->]]>
<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;]
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib " %role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;]
<!ELEMENT seeie %ho; (%ndxterm.char.mix;)*>
<!--end of seeie.element-->

<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;]
<!ATTLIST seeie
%linkend.attrib; %common.attrib;
%seeie.role.attrib;
%local.seeie.attrib;>
<!--end of seeie.attlist-->
<!-- to IndexEntry to look up -->

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;]
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib " %role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;]
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->

<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;]
<!ATTLIST seealsoie
%linkends.attrib; %common.attrib;
%seealsoie.role.attrib;
%local.seealsoie.attrib;>
<!--end of seealsoie.attlist-->
<!--to related IndexEntries-->

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;]
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib " %role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;]
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->

<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;]
<!-- .................. .................................. -->

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<!-- RefEntry ............................................................. -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;]
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;]
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;]
<!ELEMENT refentry %ho; (beginpage?,
   (%ndxterm.class;)*,
   refentryinfo?, refmeta?, (remark|%link.char.class;)*,
   refnamediv+, refsynopsisdiv?, (refsect1+|refsection+))
%ubiq.inclusion;>
<!!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;]
<!ATTLIST refentry
   %status.attrib;
   %common.attrib;
   %refentry.role.attrib;
   %local.refentry.attrib;
   >
<!!--end of refentry.attlist-->]]>
<!!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<![%refmeta.module;]
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
<![%refmeta.element;]
<!ELEMENT refmeta %ho; (%ndxterm.class;)*,
   refentrytitle, manvolnum?, refmiscinfo*,
   (%ndxterm.class;)*)
%beginpage.exclusion;>
<!!--end of refmeta.element-->]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;]
<!ATTLIST refmeta
   %common.attrib;
   %refmeta.role.attrib;
   %local.refmeta.attrib;
<!ENTITY % refdescriptor.module "INCLUDE">
<![%refdescriptor.module;]
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib "%role.attrib;">

<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;]
<!ELEMENT refdescriptor %ho; (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;]
<!ATTLIST refdescriptor
%common.attrib;
%refdescriptor.role.attrib;
%local.refdescriptor.attrib;
>
<!--end of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY % refname.module "INCLUDE">
<![%refname.module;]
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;]
<!ELEMENT refname %ho; (%refname.char.mix;)*>
<!--end of refname.element-->]]>

<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;]
<!ATTLIST refname
%common.attrib;
%refname.role.attrib;
%local.refname.attrib;
>
<!--end of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;]
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;]
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook character entities module V4.4 ......................... -->
<!-- File dbcentx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbcentx.mod,v 1.28 2005/01/27 13:52:00 nwalsh Exp $

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additional notations, label your DTD as a variant of DocBook. See
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information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!--ENTITY % dbcent PUBLIC
"-/OASIS/ENTITIES DocBook Character Entities V4.4//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- 

<![%sgml.features:]

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Arrow Relations//EN">
<![--end of ISOamsa.module--]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Binary Operators//EN">
<![--end of ISOamsb.module--]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Delimiters//EN">
<![--end of ISOamsc.module--]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Negated Relations//EN">
<![--end of ISOamsn.module--]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Ordinary//EN">
<![--end of ISOamso.module--]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986/ENTITIES Added Math Symbols: Relations//EN">
<![--end of ISOamsr.module--]]>

<!ENTITY % ISObox.module "INCLUDE">
<![ %ISObox.module; [
<!ENTITY % ISObox PUBLIC}
<![iso.num.module;[  %ISOnum.module;  ]]>  
<!ENTITY % ISOnum PUBLIC  
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/isonum.ent">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![iso.pub.module;[  %ISOpub.module;  ]]>  
<!ENTITY % ISOpub PUBLIC  
"ISO 8879:1986//ENTITIES Publishing//EN//XML"
"ent/isopub.ent">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![iso.tech.module;[  %ISOtech.module;  ]]>  
<!ENTITY % ISOtech PUBLIC  
"ent/isotech.ent">
<!--end of ISOtech.module-->]]>

<!--end of xml.features-->]]>

<![ ISOamsa.module; [  %ISOamsa.module;  ]]>  
<![ ISOamsa;  ]]>  

<![ ISOamsb.module; [  %ISOamsb.module;  ]]>  
<![ ISOamsb;  ]]>  

<![ ISOamsc.module; [  %ISOamsc.module;  ]]>  
<![ ISOamsc;  ]]>  

<![ ISOamsn.module; [  %ISOamsn.module;  ]]>  
<![ ISOamsn;  ]]>  

<![ ISOamso.module; [  %ISOamso.module;  ]]>  
<![ ISOamso;  ]]>  

<![ ISOamsr.module; [  %ISOamsr.module;  ]]>  
<![ ISOamsr;  ]]>  

<![ ISObox.module; [  %ISObox.module;  ]]>  
<![ ISObox;  ]>
No license file was found, but licenses were detected in source scan.

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This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

```
<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.3//EN"
"dbcentx.mod">
%dbcent;
```

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->
<!ENTITY % ISOamsb PUBLIC
"ent/iso-amsb.ent">
<!ENTITY % ISOamsc PUBLIC
"ent/iso-amsc.ent">
<!ENTITY % ISOamsn PUBLIC
"ent/iso-amsn.ent">
<!ENTITY % ISOamso PUBLIC
"ent/iso-amso.ent">
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/iso-amsr.ent">
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN//XML"
"ent/iso-box.ent">
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr1.ent">
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr2.ent">
<!ENTITY % ISOamsb PUBLIC
"ent/iso-amsb.ent">
<!ENTITY % ISOamsc PUBLIC
"ent/iso-amsc.ent">
<!ENTITY % ISOamsn PUBLIC
"ent/iso-amsn.ent">
<!ENTITY % ISOamso PUBLIC
"ent/iso-amso.ent">
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/iso-amsr.ent">
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN//XML"
"ent/iso-box.ent">
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr1.ent">
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr2.ent">
Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjBD/docbook-4.3.zip-cosi-expand-archive-SodZg7bP/dbcentx.mod
  * /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjBD/docbook-xml-4.3.zip-cosi-expand-archive-uG2nHM3j/dbcentx.mod

No license file was found, but licenses were detected in source scan.

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh and the Organization for the Advancement
of Structured Information Standards (OASIS).

$Id: dbpoolx.mod,v 1.19 2000/08/27 15:12:42 nwalsh Exp$

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warranty.

If you modify the DocBook XML DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

-->
<!-- ................................................................. -->

<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

o It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbpool PUBLIC 
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.1.2//EN"
"dbpoolx.mod">
%dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook. -->

<!-- ................................................................. -->

<!-- General-purpose semantics entities ............................. -->

<!ENTITY % yesorno.attvals"CDATA"> 

<!-- Entities for module inclusions ...................................... -->

<!ENTITY % dbpool.redecl.module "IGNORE"> 

<!-- Entities for element classes and mixtures ..................... -->

<!ENTITY % ndxterm.class "Ubiquitous" classes: ndxterm.class and beginpage -->
<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % ebnf.block.hook "">

<!ENTITY % local.compound.class "">
<!ENTITY % compound.class
"msgset|procedure|sidebar|qandaset
%ebnf.block.hook;
%local.compound.class;">

<!ENTITY % local.genobj.class "">
<!ENTITY % genobj.class
"anchor|bridgehead|remark|highlights
%local.genobj.class;">

<!ENTITY % local.descobj.class "">
<!ENTITY % descobj.class
"abstract|authorblurb|epigraph
%local.descobj.class;">

<!ENTITY % local.xref.char.class "">
<!ENTITY % xref.char.class
"footnoteref|xref %local.xref.char.class;">

<!ENTITY % local.gen.char.class "">
<!ENTITY % gen.char.class
"abbrev|acronym|citation|citerefentry|citetitle|emphasis
|firstterm|foreignphrase|glossterm|footnote|phrase
|quote|trademark|wordasword %local.gen.char.class;">

<!ENTITY % local.link.char.class "">
<!ENTITY % link.char.class
"link|olink|ulink %local.link.char.class;">

<!ENTITY % local.tech.char.class "">
<!ENTITY % tech.char.class
"action|application
|classname|methodname|interfacename|exceptionname
|ooclass|oointerface|ooexception
|command|computeroutput
|database|email|envar|errorcode|errorname|errortype|filename

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Paragraph mixture X X X X
Admonition mixture X X X X X X b c
Figure mixture X X X
Table entry mixture X X X d
Glossary def mixture X X X X X e
Legal notice mixture X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->
<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
%condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
%security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"id	ID	#IMPLIED”>

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib
"id#REQUIRED”>

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib
"langCDATA#IMPLIED”>

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib
"remapCDATA#IMPLIED”>

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib
"roleCDATA#IMPLIED”>
<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib "xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib "revisionflag(changed |added |deleted |off)#IMPLIED">

<!ENTITY % local.common.attrib "">

<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib "%id.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;">

<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib "%idreq.attrib;
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%local.common.attrib;">

<!-- Semi-common attributes and other attribute entities .................. -->

<!ENTITY % local.graphics.attrib "">

<!ENTITY % xreflabel.attrib "xreflabelCDATA#IMPLIED">
-- Bibliographic entities and elements .................................. -->

<!ENTITY % subtitle.attlist "INCLUDE">  
<![%subtitle.attlist;]  
<!ATTLIST subtitle  
%common.attrib;  
%subtitle.role.attrib;  
%local.subtitle.attrib;  
>  
<!--end of subtitle.attlist-->]]>  
<!--end of subtitle.module-->]]>

<!-- The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->
<!ATTLIST bibliomset
relation CDATA #IMPLIED
%common.attrib;
%bibliomset.role.attrib;
%local.bibliomset.attrib;
>
<!--end of bibliomset.attlist-->]]>
<!--end of bibliomset.module-->]]>

<!ENTITY % bibliomset.module "INCLUDE">
<![bibliomset.module:]>
<!ENTITY % bibliomset.role.attrib "%role.attrib;">
<!ENTITY % local.bibliomset.attrib "">

<!ENTITY % bibliomset.element "INCLUDE">
<![bibliomset.element:]>
<!ELEMENT bibliomset (#PCDATA | %bibliocomponent.mix; | bibliomset)*>
<!--end of bibliomset.element-->

<!ENTITY % bibliomset.attlist "INCLUDE">
<![bibliomset.attlist:]>
<!ELEMENT bibliomset (relation CDATA #IMPLIED
%bibliomset.role.attrib;
%common.attrib;
%local.bibliomset.attrib;
>]
<!--end of bibliomset.attlist-->]]>
<!--end of bibliomset.module-->]]>

<!ENTITY % bibliomisc.module "INCLUDE">
<![bibliomisc.module:]>
<!ENTITY % local.bibliomisc.attrib "">
<!ENTITY % bibliomisc.role.attrib "%role.attrib;">

<!ENTITY % bibliomisc.element "INCLUDE">
<![bibliomisc.element:]>
<!ELEMENT bibliomisc (%para.char.mix;)*>
<!--end of bibliomisc.element-->

<!ENTITY % bibliomisc.attlist "INCLUDE">
<![bibliomisc.attlist:]>
<!ELEMENT bibliomisc ( %common.attrib;
%bibliomisc.role.attrib;>]

---

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%local.bibliomisc.attrib;
>
<!--end of bibliomisc.attlist-->]]>
<!--end of bibliomisc.module-->]]>

<!-- Subject, Keyword, and ITermSet elements ......................... -->

<!ENTITY % subjectset.content.module "INCLUDE">
<![%subjectset.content.module;]
<!ENTITY % subjectset.module "INCLUDE">
<![%subjectset.module;]
<!ENTITY % local.subjectset.attrib "">
<!ENTITY % subjectset.role.attrib "%role.attrib;">

<!ENTITY % subjectset.element "INCLUDE">
<![%subjectset.element;]
<!ELEMENT subjectset (subject+)>
<!--end of subjectset.element-->]]>

<!ENTITY % subjectset.attlist "INCLUDE">
<![%subjectset.attlist;]
<!ATTLIST subjectset
scheme NMTOKEN #IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<![end of subjectset.attlist-->]]>
<![end of subjectset.module-->]]>

<!ENTITY % subject.module "INCLUDE">
<![%subject.module;]
<!ENTITY % local.subject.attrib "">
<!ENTITY % subject.role.attrib "%role.attrib;">

<!ENTITY % subject.element "INCLUDE">
<![%subject.element;]
<!ELEMENT subject (subjectterm+)>
<![end of subject.element-->]]>

<!-- Weight: Ranking of this group of SubjectTerms relative

to others, 0 is low, no highest value specified -->

-- Subject, Keyword, and ITermSet elements ................. -->
<!-- Compound (section-ish) elements ...................................... -->

<!-- Message set .............................................. -->

<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; ]>
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; ]>
<!ENTITY % local.msgset.attrib "">
<!ENTITY % msgset.role.attrib " %role.attrib; " >

<!ENTITY % msgset.element "INCLUDE">
<![ %msgset.element; ]>
<!ELEMENT msgset ((%formalobject.title.content;)?, (msgentry+|simplemsgentry+))>
<!--end of msgset.element-->]

<!ENTITY % msgset.attlist "INCLUDE">
<![ %msgset.attlist; ]>
<!ATTLIST msgset
%common.attrib;
%msgset.role.attrib;
%local.msgset.attrib;
> 
<!--end of msgset.attlist-->]

<!ENTITY % msgentry.module "INCLUDE">
<![ %msgentry.module; ]>
<!ENTITY % local.msgentry.attrib " ">
<!ENTITY % msgentry.role.attrib " %role.attrib; ">

<!ENTITY % msgentry.element "INCLUDE">
<![ %msgentry.element; ]>
<!ELEMENT msgentry (msg+, msginfo?, msgexplan*)>
<!--end of msgentry.element-->]

<!ENTITY % msgentry.attlist "INCLUDE">
<![ %msgentry.attlist; ]>
<!ATTLIST msgentry
%common.attrib;
%msgentry.role.attrib;
%local.msgentry.attrib;
>
<!--end of msgentry.attlist-->]

<!ENTITY % simplemsgentry.module "INCLUDE">
<![ %simplemsgentry.module; ]>

---
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Open Source Used In OnPrem2.1 2.2 32193
<!-- Renderas: Indicates the format in which the BridgeHead should appear -->
%local.glosslist.attrib;
>
<!--end of glosslist.attlist-->
<!--end of glosslist.module-->
<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]]>
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]]>
<!ENTITY % local.glossentry.attrib "">
<![ENTITY % glossentry.role.attrib "%role.attrib;"]>}

<!--end of glossentry.element-->

<!-- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -->

<!ENTITY % glossentry.attlist "INCLUDE">
<![%glossentry.attlist;]]>
<!ATTLIST glossentry
sortas CDATA #IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<!--end of glossentry.attlist-->
<!--end of glossentry.module-->

<!-- GlossTerm (defined in the Inlines section, below)-->
<!ENTITY % glossseealso.attlist "INCLUDE">
<![%glossseealso.attlist;]
<!ATTLIST glossseealso
  otherterm IDREF #IMPLIED
  %common.attrib;
  %glossseealso.role.attrib;
  %local.glossseealso.attrib;
>
<!!-- end of glossseealso.attlist-->

<!-- ItemizedList and OrderedList ..... -->

<!ENTITY % itemizedlist.module "INCLUDE">
<![%itemizedlist.module;]
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">  

<!ENTITY % itemizedlist.element "INCLUDE">
<![%itemizedlist.element;]
<!ELEMENT itemizedlist ((%formalobject.title.content;)?, listitem+)>  
<!!-- end of itemizedlist.element-->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![%itemizedlist.attlist;]
<!ATTLIST itemizedlist
  spacing (normal | compact) #IMPLIED
  %mark.attrib;
  %common.attrib;
  %itemizedlist.role.attrib;
  %local.itemizedlist.attrib;
>
<!!-- end of itemizedlist.attlist-->

<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;]
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">  

%common.attrib;
%seg.role.attrib;
%local.seg.attrib;
>
<!--end of seg.attlist-->
<!--end of seg.module-->
<!--end of segmentedlist.content.module-->

<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![<!%simplelist.content.module;]
<!ENTITY % simplelist.module "INCLUDE">
<![<!%simplelist.module;]
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">

<!ENTITY % simplelist.element "INCLUDE">
<![<!%simplelist.element;]
<!ELEMENT simplelist (member+)>
<!--end of simplelist.element-->

<!ATTLIST simplelist
columns		CDATA		#IMPLIED

type	(inline
|vert
|horiz)"vert"

%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->
<!--end of simplelist.module-->

<!ENTITY % member.module "INCLUDE">
<![<!%member.module;]
<!ENTITY % local.member.attrib "">
Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)
- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->

<!-- OtherUnits: User-defined units -->

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!-- OtherUnits: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->

<!-- OtherUnits: User-defined units -->
units(calspair
| linecolumn
| linerange
| linecolumnpair
| other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module:;[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">

<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element:;[
<!ELEMENT areaset (area+)>
<!--end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist:;[
<!ATTLIST areaset
%label.attrib;
units(calspair
| linecolumn
| linerange
| linecolumnpair
| other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>
<!ELEMENT figure ((%formalobject.title.content;), (%figure.mix; | %link.char.class;)+)>
<!--end of figure.element-->

<!-- Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->

<!ENTITY % figure.attlist "INCLUDE">
<![%figure.attlist;[
<!ATTLIST figure
float%yesorno.attvals;'0'
pgwide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%figure.role.attrib;
%local.figure.attrib;
>]
<!--end of figure.attlist-->
<!--end of figure.module-->

<!ENTITY % informalfigure.module "INCLUDE">
<![ %informalfigure.module; [ 
<!ENTITY % local.informalfigure.attrib ""
<!ENTITY % informalfigure.role.attrib "%role.attrib;">

<!ENTITY % informalfigure.element "INCLUDE">
<![ %informalfigure.element; [ 
<!ELEMENT informalfigure ((%figure.mix; | %link.char.class;)+)>
<!--end of informalfigure.element-->

<!ENTITY % informalfigure.attlist "INCLUDE">
<![ %informalfigure.attlist; [
<!-- Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) -->

<!ATTLIST informalfigure
float%yesorno.attvals;"0"
pgwide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%informalfigure.role.attrib;
%local.informalfigure.attrib;
>
<!--end of informalfigure.attlist-->
<!--end of informalfigure.module-->

---

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<ENTITY % graphicco.module "INCLUDE">
<![graphicco.module:]
<ENTITY % local.graphicco.attrib "">
<ENTITY % graphicco.role.attrib "%role.attrib;">

<ENTITY % graphicco.element "INCLUDE">
<![graphicco.element:]
<ENTITY graphicco (areaspec, graphic, calloutlist*)>
<ENTITY % graphicco.attlist "INCLUDE">
<![graphicco.attlist:]
<ATTLIST graphicco
%common.attrib;
%graphicco.role.attrib;
%local.graphicco.attrib;
>
<!--end of graphicco.attlist-->]]>
<!-- AreaSpec (defined above in Examples)-->
<!-- CalloutList (defined above in Lists)-->
<--end of graphicco.module-->]]>

<ENTITY % graphic.module "INCLUDE">
<![graphic.module:]
<ENTITY % local.graphic.attrib "">
<ENTITY % graphic.role.attrib "%role.attrib;">
<ENTITY % graphic.element "INCLUDE">
<![graphic.element:]
<ENTITY graphic EMPTY>
<!--end of graphic.element-->]]>

<ENTITY % graphic.attlist "INCLUDE">
<![graphic.attlist:]
<ATTLIST graphic
%graphics.attrib;
%common.attrib;
%graphic.role.attrib;
%local.graphic.attrib;
>
<!--end of graphic.attlist-->]]>
<!--end of graphic.module-->]]>
-- Equations ......................... -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic|mediaobject+))">
<!ENTITY % inlineequation.content "(alt?, (graphic|linemediaobject+))">

<!ENTITY % equation.module "INCLUDE" ”>
<!ATTLIST equation
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
>
<!--end of equation.module-->]]>

<!ENTITY % informalequation.module "INCLUDE" ”>
<!ATTLIST informalequation
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
>
<!--end of informalequation.module-->]]>
<!-- Tables ......................... -->

<!ENTITY % table.module "INCLUDE">
<![%table.module;]

<!-- Choose a table model. CALS or OASIS XML Exchange -->

<!ENTITY % cals.table.module "INCLUDE">
<![%cals.table.module;]
<!ENTITY % exchange.table.module "IGNORE">
]>
<!ENTITY % exchange.table.module "INCLUDE">

<!ENTITY % tables.role.attrib "%role.attrib;">  
<![%cals.table.module;]
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "%label.attrib;">  

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, 
EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib; %tables.role.attrib;">  

<!ENTITY % common.table.attribs "%bodyatt; %secur;">  

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), (%ndxterm.class;)*, 
  (graphic+|mediaobject+|tgroup+))">  

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;">  

<!-- Reference CALS Table Model -->
<!ENTITY % tablemodel PUBLIC "/OASIS//DTD DocBook XML CALS Table Model V4.1.2//EN" 
"calstblx.dtd"> ]>

<![%exchange.table.module;]
<!-- Add common attributes and the Label attribute to Table and -->
<!ENTITY % bodyatt "%common.attrib;">  

<!ENTITY % role.attrib "INCLUDE">
<![%role.attrib;]
%label.attrib;
%tables.role.attrib;">

<!ENTITY % common.table.attribs "%bodyatt;">

<!-- Add common attributes to TGroup, ColSpec, TBody, THead, Row, Entry -->

<!ENTITY % tbl.tgroup.att "%common.attrib;">
<!ENTITY % tbl.colspec.att "%common.attrib;">
<!ENTITY % tbl.tbody.att "%common.attrib;">
<!ENTITY % tbl.thead.att "%common.attrib;">
<!ENTITY % tbl.row.att "%common.attrib;">
<!ENTITY % tbl.entry.att "%common.attrib;">

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), (%ndxterm.class;)*, (graphic+|tgroup+))">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*">

<!-- Reference OASIS Exchange Table Model -->
<!ENTITY % tablemodel PUBLIC "://OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd">
]]>

%tablemodel;

<!--end of table.module-->

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib "">

<!ENTITY % informaltable.module "INCLUDE">
<![%informaltable.module:]

<!-- Frame, Colsep, and Rowsep must be repeated because --

</<!DOCTYPE html PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd">

]]>

<!DOCTYPE html PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd">

]]>

<!DOCTYPE html PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd">

]]>
they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry,
 Orient, PgWide -->
<!-- includes Label -->
<!-- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE">
<![%informaltable.attlist;]
<!ATTLIST informaltable
  frame	(top
  |bottom
  |topbot
  |all
  |sides
  |none)#IMPLIED
colsep%yesorno.attvals;#IMPLIED
rowsep%yesorno.attvals;#IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
>
<!--end of informaltable.attlist-->]]>
<!--end of informaltable.module-->]]>

<!-- Synopses ......................................................... -->
<!-- Synopsis ...................................................... -->

<!ENTITY % synopsis.module "INCLUDE">
<![%synopsis.module;]
<!ENTITY % local.synopsis.attrib "">
<!ENTITY % synopsis.role.attrib "%role.attrib;">  
<!ENTITY % synopsis.element "INCLUDE">
<![%synopsis.element;]
<!ELEMENT synopsis (%para.char.mix; | graphic | mediaobject | lineannotation | co)*>
<!--end of synopsis.element-->]]>

<!ENTITY % synopsis.attlist "INCLUDE">
<![%synopsis.attlist;]
<!ATTLIST synopsis
  %label.attrib;
  %linespecific.attrib;
  %common.attrib;
  %synopsis.role.attrib;
  %local.synopsis.attrib;
<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist;[
<!ATTLIST group
  choice(opt
   |req
   |plain)  'opt'
  rep(norepeat
   |repeat)'norepeat'
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->]]>
<!--end of group.module-->]]>

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;[
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;"> 

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;[
<!ELEMENT sbr EMPTY>
<!--end of sbr.element-->
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<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![%paramdef.module;]
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "role.attrib;">
<!ENTITY % oointerface.module "INCLUDE">
<![%oointerface.module;[
<!ENTITY % local.oointerface.attrib "">
<!ENTITY % oointerface.role.attrib "%role.attrib;">

<!ENTITY % oointerface.element "INCLUDE">
<![%oointerface.element;[
<!ELEMENT oointerface (modifier*, interfacename)>
<!end of oointerface.element--]]>]

<!ENTITY % oointerface.attlist "INCLUDE">
<![%oointerface.attlist;[
<!ATTLIST oointerface
%common.attrib;
%oointerface.role.attrib;
%local.oointerface.attrib;
>]
<!end of oointerface.attlist--]]>]

<!ENTITY % ooexception.module "INCLUDE">
<![%ooexception.module;[
<!ENTITY % local.ooexception.attrib "">
<!ENTITY % ooexception.role.attrib "%role.attrib;">

<!ENTITY % ooexception.element "INCLUDE">
<![%ooexception.element;[
<!ELEMENT ooexception (modifier*, exceptionname)>
<!end of ooexception.element--]]>]

<!ENTITY % ooexception.attlist "INCLUDE">
<![%ooexception.attlist;[
<!ATTLIST ooexception
%common.attrib;
%ooexception.role.attrib;
%local.ooexception.attrib;
>]
<!end of ooexception.attlist--]]>]

<!ENTITY % modifier.module "INCLUDE">
<![%modifier.module;[
<!ENTITY % local.modifier.attrib "">
<!ENTITY % modifier.role.attrib "%role.attrib;">
<!ENTITY % methodsynopsis.role.attrib "%role.attrib;">  

<!ENTITY % methodsynopsis.element "INCLUDE">  
<![<!%methodsynopsis.element;]>
<!ELEMENT methodsynopsis (modifier*,
  (type|void)?,
  methodname,
  (methodparam+|void),
  exceptionname*,
  modifier*)>
<![--end of methodsynopsis.element--]>]]>

<!ENTITY % methodsynopsis.attlist "INCLUDE">  
<![<!%methodsynopsis.attlist;]>
<!ATTLIST methodsynopsis
  %common.attrib;
  %methodsynopsis.role.attrib;
  %local.methodsynopsis.attrib;
  >
<![--end of methodsynopsis.attlist--]>]]>
<![--end of methodsynopsis.module--]>]]>

<!ENTITY % methodname.module "INCLUDE">  
<![<!%methodname.module;]>
<!ENTITY % local.methodname.attrib "">
<!ENTITY % methodname.role.attrib "%role.attrib;">

<!ENTITY % methodname.element "INCLUDE">  
<![<!%methodname.element;]>
<!ELEMENT methodname (%smallcptr.char.mix;)*>  
<![--end of methodname.element--]>]]>

<!ENTITY % methodname.attlist "INCLUDE">  
<![<!%methodname.attlist;]>
<!ATTLIST methodname
  %common.attrib;
  %methodname.role.attrib;
  %local.methodname.attrib;
  >
<![--end of methodname.attlist--]>]]>
<![--end of methodname.module--]>]]>

<!ENTITY % methodparam.module "INCLUDE">  
<![<!%methodparam.module;]>
<!ENTITY % local.methodparam.attrib "">
<!ENTITY % methodparam.role.attrib "%role.attrib;">

<!ENTITY % methodparam.element "INCLUDE">
<!ENTITY % methodparam.element "INCLUDE">
<!ENTITY % methodparam.attlist "INCLUDE">
<!ATTLIST methodparam %common.attrib;
%methodparam.role.attrib;
%local.methodparam.attrib;
choice(opt
|req
|plain)"req"
rep(norepeat
|repeat)"norepeat"
>
<!-- end of methodparam.attlist-->
<!-- end of methodparam.element-->
<!-- end of classsynopsis.content.module-->

<!-- Document information entities and elements .................... -->

<!-- The document information elements include some elements that are
currently used only in the document hierarchy module. They are
defined here so that they will be available for use in customized
document hierarchies. -->

<!-- Ackno ......................... -->

<!ENTITY % ackno.module "INCLUDE">
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">
<!ELEMENT country (%docinfo.char.mix;)*>
<!--end of country.element-->]]>

<!ENTITY % country.attlist "INCLUDE">
<![%country.attlist;[
<!ATTLIST country
%common.attrib;
%countryled.role.attrib;
%local.country.attrib;
>]]>
<!--end of country.attlist-->]]>
<!--end of country.module-->]]>

<!ENTITY % phone.module "INCLUDE">
<![%phone.module;[
<!ENTITY % local.phone.attrib "">
<!ENTITY % phone.role.attrib "">

<!ENTITY % phone.element "INCLUDE">
<![%phone.element;[
<!ELEMENT phone (%docinfo.char.mix;)*>
<!--end of phone.element-->]]>
<!--end of phone.module-->]]>

<!ENTITY % fax.module "INCLUDE">
<![%fax.module;[
<!ENTITY % local.fax.attrib "">
<!ENTITY % fax.role.attrib "">

<!ENTITY % fax.element "INCLUDE">
<![%fax.element;[
<!ELEMENT fax (%docinfo.char.mix;)*>
<!--end of fax.element-->]]>
<!--end of fax.module-->]]>
(%notation.class;)#IMPLIED
%common.attrib;
%modespec.role.attrib;
%local.modespec.attrib;
>
<!--end of modespec.attlist-->
<!--end of modespec.module-->

<!-- OrgName ......................... -->

<!ENTITY % orgname.module "INCLUDE">
<![%orgname.module;]
<!ENTITY % local.orgname.attrib "">
<!ENTITY % orgname.role.attrib "%role.attrib;">

<!ENTITY % orgname.element "INCLUDE">
<![%orgname.element;]
<!ELEMENT orgname (%docinfo.char.mix;)*>
<!--end of orgname.element-->

<!ENTITY % orgname.attlist "INCLUDE">
<![%orgname.attlist;]
<!ATTLIST orgname
%common.attrib;
%orgname.role.attrib;
%local.orgname.attrib;
>
<!--end of orgname.attlist-->
<!--end of orgname.module-->

<!-- OtherCredit ..................... -->

<!ENTITY % othercredit.module "INCLUDE">
<![%othercredit.module;]
<!ENTITY % local.othercredit.attrib "">
<!ENTITY % othercredit.role.attrib "%role.attrib;">

<!ENTITY % othercredit.element "INCLUDE">
<![%othercredit.element;]
<!ELEMENT othercredit ((%person.ident.mix;)+)
<!--end of othercredit.element-->

<!ENTITY % othercredit.attlist "INCLUDE">
<![%othercredit.attlist;]
<!ATTLIST othercredit
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
%contrib.role.attrib;
%local.contrib.attrib;
>
<!--end of contrib.attlist-->
<!--end of contrib.module-->

<!ENTITY % firstname.module "INCLUDE">
<![%firstname.module;]
<!ENTITY % local.firstname.attrib "">
<!ENTITY % firstname.role.attrib "%role.attrib;">

<!ENTITY % firstname.element "INCLUDE">
<![%firstname.element;]
<!ELEMENT firstname (%docinfo.char.mix;)*>
<!--end of firstname.element-->

<!ENTITY % firstname.attlist "INCLUDE">
<![%firstname.attlist;]
<!ATTLIST firstname
%common.attrib;
%firstname.role.attrib;
%local.firstname.attrib;
>
<!--end of firstname.attlist-->
<!--end of firstname.module-->

<!ENTITY % honorific.module "INCLUDE">
<![%honorific.module;]
<!ENTITY % local.honorific.attrib "">
<!ENTITY % honorific.role.attrib "%role.attrib;">

<!ENTITY % honorific.element "INCLUDE">
<![%honorific.element;]
<!ELEMENT honorific (%docinfo.char.mix;)*>
<!--end of honorific.element-->

<!ENTITY % honorific.attlist "INCLUDE">
<![%honorific.attlist;]
<!ATTLIST honorific
%common.attrib;
%honorific.role.attrib;
%local.honorific.attrib;
>
<!--end of honorific.attlist-->
<!--end of honorific.module-->

<!ENTITY % lineage.module "INCLUDE">
<![%lineage.module;]
<!ENTITY % productname.attlist "INCLUDE">
<![%productname.attlist;]
<!ATTLIST productname
class service | trade | registered | copyright 'trade' %common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<![--end of productname.attlist-->]]>
<![--end of productname.module-->]]>

<![-- ProductNumber .................... --]]>

<!ENTITY % productnumber.module "INCLUDE">
<![%productnumber.module;]
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;"> 

<![ENTITY % productnumber.element "INCLUDE">
<![%productnumber.element;]
<!ELEMENT productnumber (%docinfo.char.mix;)*>
<![--end of productnumber.element-->]]>

<![ENTITY % productnumber.attlist "INCLUDE">
<![%productnumber.attlist;]
<!ATTLIST productnumber
%common.attrib;
%productnumber.role.attrib;
%local.productnumber.attrib;
>
<![--end of productnumber.attlist-->]]>
<![--end of productnumber.module-->]]>

<![-- PubDate ......................... --]]>

<!ENTITY % pubdate.module "INCLUDE">
<![%pubdate.module;]
<!ENTITY % local.pubdate.attrib "">
<!ENTITY % pubdate.role.attrib "%role.attrib;"> 

<![ENTITY % pubdate.element "INCLUDE">
<![%pubdate.element;]
<!ELEMENT pubdate (%docinfo.char.mix;)*>
<![--end of pubdate.element-->]]>
<!ENTITY % command.attlist "INCLUDE">
<![<!ATTLIST command %moreinfo.attrib;
%common.attrib;
%command.role.attrib;
%local.command.attrib; >
<!--end of command.attlist-->]]>
<!--end of command.module-->]]>

<!ENTITY % computeroutput.module "INCLUDE">
<![<!computeroutput.module:[
<!ENTITY % local.computeroutput.attrib "">
<!ENTITY % computeroutput.role.attrib "%role.attrib:">

<!ENTITY % computeroutput.element "INCLUDE">
<![<!computeroutput.element:[
<!ELEMENT computeroutput (%cptr.char.mix;)*>
<!--end of computeroutput.element-->]]>

<!ENTITY % computeroutput.attlist "INCLUDE">
<![<!computeroutput.attlist:[
<!ATTLIST computeroutput %moreinfo.attrib;
%common.attrib;
%computeroutput.role.attrib;
%local.computeroutput.attrib; >
<!--end of computeroutput.attlist-->]]>
<!--end of computeroutput.module-->]]>

<!ENTITY % database.module "INCLUDE">
<![<!database.module:[
<!ENTITY % local.database.attrib "">
<!ENTITY % database.role.attrib "%role.attrib;">

<!ENTITY % database.element "INCLUDE">
<![<!database.element:[
<!ELEMENT database (%smallcptr.char.mix;)*>
<!--end of database.element-->]]>

<!-- Class: Type of database the element names; no default -->

<!ENTITY % database.attlist "INCLUDE">
<![<!database.attlist:[

-----------------------------------
Class: Type of the Parameter; no default -->

Class (command | function | option)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%parameter.role.attrib;
%local.parameter.attrib;
>
<![CDATA[ ]]>
<![CDATA[ ]]>

.prompt
%role.attrib;
Open Source Used In OnPrem2.1 2.2 32296
default -->

<!ENTITY % replaceable.attlist "INCLUDE">
<!--![%replaceable.attlist;[<!ATTLIST replaceable class(command |function |option |parameter)#IMPLIED %common.attrib; %replaceable.role.attrib; %local.replaceable.attrib; > <!--end of replaceable.attlist--]]>]
<!--end of replaceable.module--]

<!ENTITY % returnvalue.module "INCLUDE">
<!--![%returnvalue.module;[<!ENTITY % local.returnvalue.attrib """> <!ENTITY % returnvalue.role.attrib "%role.attrib;"">

<!ENTITY % returnvalue.element "INCLUDE">
<!--![%returnvalue.element;[<!ELEMENT returnvalue (%smallcptr.char.mix;)*> <!--end of returnvalue.element--]]>]

<!ENTITY % returnvalue.attlist "INCLUDE">
<!--![%returnvalue.attlist;[<!ATTLIST returnvalue %common.attrib; %returnvalue.role.attrib; %local.returnvalue.attrib; > <!--end of returnvalue.attlist--]]>]
<!--end of returnvalue.module--]

<!ENTITY % sgmltag.module "INCLUDE">
<!--![%sgmltag.module;[<!ENTITY % local.sgmltag.attrib """> <!ENTITY % sgmltag.role.attrib "%role.attrib;"">

<!ENTITY % sgmltag.element "INCLUDE">
<!--![%sgmltag.element;[<!ELEMENT sgmltag (%smallcptr.char.mix;)*> <!--end of sgmltag.element--]]>]

<!-- Class: Type of SGML construct the element names; no default -->

---

Open Source Used In OnPrem2.1 2.2 32297
<!-- Class: Type of system item the element names; no default -->

<!ENTITY % systemitem.attlist "INCLUDE">
<![%systemitem.attlist;]
<!ATTLIST systemitem
    class(constant
        |groupname
        |library
    |macro
    |osname
    |resource
    |systemname
       |username)#IMPLIED
%moreinfo.attrib;
%commonattrib;
%systemitem.role.attrib;
%local.systemitem.attrib;
>
<!--end of systemitem.attlist-->]]>
<!--end of systemitem.module-->]]>

<!ENTITY % token.module "INCLUDE">
<![%token.module;]
<!ENTITY % local.token.attrib "">
<!ENTITY % token.role.attrib "%role.attrib;"> 

<!ENTITY % token.element "INCLUDE">
<![%token.element;]
<!ELEMENT token (%smallcptr.char.mix;)*> 
<!--end of token.element-->]]>

<!ENTITY % token.attlist "INCLUDE">
<![%token.attlist;]
<!ATTLIST token
%common.attrib;
%token.role.attrib;
%local.token.attrib;
>
<!--end of token.attlist-->]]>
<!--end of token.module-->]]>

<!ENTITY % type.module "INCLUDE">
<![%type.module;]
<!ENTITY % local.type.attrib "">
<!ENTITY % type.role.attrib "%role.attrib;">
<!DOCTYPE eft>
<!ENTITY % citerefentry.module "INCLUDE">
<!ENTITY % citerefentry.module:

<!ENTITY % local.citerefentry.attrib "">
<!ENTITY % citerefentry.role.attrib "%role.attrib;">

<!ENTITY % citerefentry.element "INCLUDE">
<!ENTITY % citerefentry.element:

<!ELEMENT citerefentry (refentrytitle, manvolnum?)>
<!--end of citerefentry.element-->
]

<!ENTITY % citerefentry.attlist "INCLUDE">
<!ENTITY % citerefentry.attlist:

<!ATTLIST citerefentry
%common.attrib;
%citerefentry.role.attrib;
%local.citerefentry.attrib;
>
<!--end of citerefentry.attlist-->
]

<!ENTITY % refentrytitle.module "INCLUDE">
<!ENTITY % refentrytitle.module:

<!ENTITY % local.refentrytitle.attrib "">
<!ENTITY % refentrytitle.role.attrib "%role.attrib;">

<!ENTITY % refentrytitle.element "INCLUDE">
<!ENTITY % refentrytitle.element:

<!ELEMENT refentrytitle (%para.char.mix;)*>
<!--end of refentrytitle.element-->
]

<!ENTITY % refentrytitle.attlist "INCLUDE">
<!ENTITY % refentrytitle.attlist:

<!ATTLIST refentrytitle
%common.attrib;
%refentrytitle.role.attrib;
%local.refentrytitle.attrib;
>
<!--end of refentrytitle.attlist-->
]

<!ENTITY % manvolnum.module "INCLUDE">
<!ENTITY % manvolnum.module:

<!ENTITY % local.manvolnum.attrib "">
<!ENTITY % namvolnum.role.attrib "%role.attrib;">

Open Source Used In OnPrem2.1 2.2 32303
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;"> 

<!ENTITY % indexterm.element "INCLUDE"> 
<![%indexterm.element:]]>

<!ELEMENT indexterm (primary?, ((secondary, ((tertiary, (see|seealso+)?)| see | seealso+)?) | see | seealso+?)?)>
<!--end of indexterm.element-->]]>  

<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm: default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE"> 
<![%indexterm.attlist:]]>

<!ATTLIST indexterm %pagenum.attrib; scope	(all | global | local)#IMPLIED significance(preferred | normal)"normal" class(singular | startofrange | endofrange)#IMPLIED startrefIDREF#IMPLIED zoneIDREFS#IMPLIED %common.attrib; %indexterm.role.attrib; %local.indexterm.attrib;>
<!--end of indexterm.attlist-->]]>  
<!--end of indexterm.module-->]]>

<!ENTITY % primsecter.module "INCLUDE"> 
<![%primsecter.module:]>
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook document hierarchy module V4.2 ............................... -->
<!-- File dbhierx.mod ..................................................... -->
<!-- ...................................................................... -->
<!-- This module contains the definitions for the overall document
hierarchies of DocBook documents. It covers computer documentation
manuals and manual fragments, as well as reference entries (such as
man pages) and technical journals or anthologies containing
articles.

This module depends on the DocBook information pool module. All
elements and entities referenced but not defined here are assumed
to be defined in the information pool module.
In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.2//EN"
"dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbhier.decl2.module "IGNORE">
<!ENTITY % dbhier.decl2.module "IGNORE">
<!-- Entities for element classes ......................................... -->
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">
<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">
<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">
<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">
<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">
<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">
<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">
<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography %local.nav.class;">
<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbhier.redecl.module;]
<!-- Defining dbhier here makes some buggy XML parsers happy. -->
<!ENTITY % dbhier "">
%dbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- Entities for element mixtures ........................................ -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class;  |beginpage
|forms.hook;
%local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class;  |beginpage
%local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
"itemizedlist|orderedlist|variablelist|simplelist
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|anchor|remark
|%link.char.class;
|beginpage

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise the set, in the order of their appearance -->

<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDED">
<![%setinfo.element;]
<!ELEMENT setinfo %ho; ((%info.class;)+)
%beginpage.exclusion;>
<![--end of setinfo.element-->]]>

<!--end of setinfo.module--]

<!-- end of set.content.module--]

<!-- ...................................................................... -->

<!-- Book and BookInfo .................................................... -->

<!ENTITY % book.content.module "INCLUDED">
<![%book.content.module;]
<!ENTITY % book.module "INCLUDED">
<![%book.module;[

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDED">
<![%book.element;[
<!ELEMENT book %ho; ((%div.title.content;)?, bookinfo?,
(dedication | toc | lot
| glossary | bibliography | preface
| %chapter.class; | reference | part
| %article.class;
| %appendix.class;
| %index.class;
| colophon)*)
%ubiq.inclusion;>
<![--end of book.element-->]]>
<!ENTITY % part.module "INCLUDE">
<![part.module;]

<!-- Note that Part was to have its content model reduced in V4.2. This change will not be made after all.-->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![part.element;]
<!ELEMENT part %ho; (beginpage?,
      partinfo?, (%bookcomponent.title.content;), partintro?,
      (%partcontent.mix;)+)
%ubiq.inclusion;>
<!-end of part.element-->

<!ENTITY % part.attlist "INCLUDE">
<![part.attlist;]
<!ATTLIST part
%label.attrib;
%status.attrib;
%common.attrib;
%part.role.attrib;
%local.part.attrib;
>
<!-end of part.attlist-->

<!ENTITY % preface.module "INCLUDE">
<![preface.module;]
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![preface.element;]
<!ELEMENT preface %ho; (beginpage?,
      prefaceinfo?,
      (%bookcomponent.title.content;),
      (partcontent.mix;)+)
%ubiq.inclusion;>
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2.1 2.2  32344

<!--end of section.content.module-->

<!--end of sect1.element-->

<!--end of sect1.attlist-->

<!--end of sect1.module-->

<!ENTITY % sect2.module "INCLUDE">
<!ENTITY % sect2.role.attrib "%role.attrib;">
<!ENTITY % sect2.element "INCLUDE">
<!ENTITY % sect2.local.attrib "">
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*, ((%divcomponent.mix;)+, ((%refentry.class;)* | sect2* | simplesect*) | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*) %ubiq.inclusion;> <!--end of sect2.module-->  

<!-- Renderas: Indicates the format in which the heading should appear -->

<!--end of sect2.element-->

<!--end of sect2.attlist-->

<!--end of sect2.module-->

<!ENTITY % sect3.module "INCLUDE">
<!ENTITY % sect3.role.attrib "%role.attrib;">
<!ENTITY % sect3.element "INCLUDE">
<!ENTITY % sect3.local.attrib "">
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*, ((%divcomponent.mix;)+, ((%refentry.class;)* | sect3* | simplesect*) | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*) %ubiq.inclusion;> <!--end of sect3.module-->

<!--end of sect3.element-->

<!--end of sect3.attlist-->

<!--end of sect3.module-->

<!ENTITY % sect4.module "INCLUDE">
<!ENTITY % sect4.role.attrib "%role.attrib;">
<!ENTITY % sect4.element "INCLUDE">
<!ENTITY % sect4.local.attrib "">
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*, ((%divcomponent.mix;)+, ((%refentry.class;)* | sect4* | simplesect*) | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*) %ubiq.inclusion;> <!--end of sect4.module-->

<!--end of sect4.element-->

<!--end of sect4.attlist-->

<!--end of sect4.module-->

<!ENTITY % sect5.module "INCLUDE">
<!ENTITY % sect5.role.attrib "%role.attrib;">
<!ENTITY % sect5.element "INCLUDE">
<!ENTITY % sect5.local.attrib "">
<!ELEMENT sect5 %ho; (sect5info?, (%sect.title.content;), (%nav.class;)*, ((%divcomponent.mix;)+, ((%refentry.class;)* | sect5* | simplesect*) | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*) %ubiq.inclusion;> <!--end of sect5.module-->

<!--end of sect5.element-->

<!--end of sect5.attlist-->

<!--end of sect5.module-->
((%refentry.class;)* | sect3* | simplesect*))
| (sect1 | sect2 | sect3 | simplesect)+, (%nav.class;)*>
</!--end of sect2.element-->
</!

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect2.attlist "INCLUDE">
<![sect2.attlist;]
<!ATTLIST sect2
renderas(sect1
|sect3
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
>  
</!--end of sect2.attlist-->
</!--end of sect2.module-->

<!ENTITY % sect3.module "INCLUDE">
<![sect3.module;]
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![sect3.element;]
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | sect4* | simplesect*))
| (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*>
</!--end of sect3.element-->
</!

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect3.attlist "INCLUDE">
<![sect3.attlist;]
<!ATTLIST sect3
renderas(sect1
|sect2
|sect4
|sect5)#IMPLIED

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<!-- Renderas: Indicates the format in which the heading should appear -->

<!-- ENTITY % sect5.attlist "INCLUDE" -->
<!-- ![sect5.attlist;] -->
<!-- ATTLIST sect5
renderas(sect1
|sect2
|sect3
|sect4)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect5.role.attrib;
%local.sect5.attrib;
> -->
<!-- ![sect5.module-->]]>

<!-- ENTITY % simplesect.module "INCLUDE" -->
<!-- ![simplesect.module;[ -->
<!-- ENTITY % local.simplesect.attrib "" -->
<!-- ENTITY % simplesect.role.attrib "%role.attrib;" -->

<!-- ENTITY % simplesect.element "INCLUDE" -->
<!-- ![simplesect.element;[ -->
<!-- ELEMENT simplesect %ho; (%sect.title.content;), (%divcomponent.mix;)+
%ubiq.inclusion;> -->
<!-- ![simplesect.module-->]]>

<!-- ENTITY % simplesect.attlist "INCLUDE" -->
<!-- ![simplesect.attlist;[ -->
<!-- ATTLIST simplesect
%common.attrib;
%simplesect.role.attrib;
%local.simplesect.attrib;
> -->
<!-- ![simplesect.module-->]]>

<!-- .......................................................... -->

Open Source Used In OnPrem2.1 2.2 32347
<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![%tertiaryie.attlist;]
<!ATTLIST tertiaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>

<![--end of primsecterie.module-->]]>

<![ENTITY % seeie.module "INCLUDE">
<![%seeie.module;]
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">

<![ENTITY % seeie.element "INCLUDE">
<![%seeie.element;]
<!ELEMENT seeie %ho; (%ndxterm.char.mix;)*>
<![--end of seeie.element-->]]>

<![-- to IndexEntry to look up -->

<![ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;]
<!ATTLIST seeie
%linkend.attrib;%common.attrib;
%seeie.role.attrib;
%local.seeie.attrib;
>
<![--end of seeie.attlist-->]]>

<![--end of seeie.module-->]]>

<![ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;]
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<![ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;]
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<![--end of seealsoie.element-->]]>

<![-- to related IndexEntries -->}
<!ENTITY % seealsoie.attlist "INCLUDE">
<!ENTITY % seealsoie.attlist;[
<!ATTLIST seealsoie
%linkends.attrib;%common.attrib;
%seealsoie.role.attrib;
%local.seealsoie.attrib;
>
<!--end of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ............................................................. -->
<!-- RefEntry ............................................................. -->
<!ENTITY % refentry.content.module "INCLUDE">
<!ENTITY % refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<!ENTITY % refentry.element;[
<!ELEMENT refentry %ho; (beginpage?,
   (%ndxterm.class;)*,
   reft entryinfo?, refmeta?, (remark|%link.char.class;)*,
   refnamediv, refsynopsisdiv?, (refsect1+)|refsection+))
%ubi q.inclusion;>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<!ENTITY % refentry.attlist;[
<!ATTLIST refentry
%status.attrib;
%common.attrib;
%refentry.role.attrib;
%local.refentry.attrib;
>
<!--end of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<!ENTITY % refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
<!-- Class: Freely assignable parameter; no default -->
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.5.zip-cosi-expand-archive-A7LkIFyZ/docbook.dtd
No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->
<!-- DocBook XML document hierarchy module V4.1.2 ................. -->
<!-- File dbhierx.mod ............................................. -->


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-->
<!-- This module contains the definitions for the overall document
hierarchies of DocBook documents. It covers computer documentation
manuals and manual fragments, as well as reference entries (such as
man pages) and technical journals or anthologies containing
articles.

This module depends on the DocBook information pool module. All
elements and entities referenced but not defined here are assumed
to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.1.2//EN"
"dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
-->
<![%sect3info.attlist;]
<!ATTLIST sect3info
%common.attrib;
%sect3info.role.attrib;
%local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>

<!ENTITY % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;]
<!ELEMENT sect4info ((graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect4info.element-->]]>

<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;]
<!ATTLIST sect4info
%common.attrib;
%sect4info.role.attrib;
%local.sect4info.attrib;
>
<!--end of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;]
<!ELEMENT sect5info ((graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;]
<!ATTLIST sect5info
%common.attrib;
%sect5info.role.attrib;
%local.sect5info.attrib;
>
<!--end of sect5info.attlist-->]]>

<!-- .................. -->
<!-- Section (parallel to Sect*) .................. -->

<!ENTITY % section.content.module "INCLUDE">
<!--end of sectioninfo.module-->

<!--end of section.content.module-->

<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;]
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;]
<!ELEMENT sect1 (sect1info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
(((%refentry.class;)* | sect2* | simplesect*))
| (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)>
<!-end of sect1.element-->

<!- Renderas: Indicates the format in which the heading should
appear -->

<!ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;]
<!ATTLIST sect1
renderas(sect2
|sect3
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect1.role.attrib;
%local.sect1.attrib;
>
<!-end of sect1.attlist-->]]>
<!-end of sect1.module-->>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;]
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;]
<!ELEMENT sect2 (sect2info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((}%divcomponent.mix;)+,

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<ENTITY % indexdiv.module "INCLUDE">

<!ENTITY % indexdiv.module: />

<!-- SegmentedList in this content is useful for marking up permuted indices. -->

<!--end of indexdiv.module-->

<!ENTITY % local.indexdiv.attrib ""/>
<ENTITY % indexdiv.role.attrib "%role.attrib;">

<!--indexdiv.element "INCLUDE"-->

<!ENTITY % indexdiv.element: />

<!ELEMENT indexdiv ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*, (indexentry+ | segmentedlist)))>
<!--end of indexdiv.element-->

<!ENTITY % indexdiv.attlist "INCLUDE">

<!ATTLIST indexdiv
%common.attrib;
%indexdiv.role.attrib;
%local.indexdiv.attrib;
>
<!--end of indexdiv.attlist-->

<!--end of indexdiv.module-->

<!ENTITY % indexentry.module "INCLUDE">

<!ENTITY % indexentry.module: />

<!-- Index entries appear in the index, not the text. -->

<!--end of indexentry.module-->

<!ENTITY % local.indexentry.attrib ""/>
<ENTITY % indexentry.role.attrib "%role.attrib;">

<!--indexentry.element "INCLUDE"-->

<!ENTITY % indexentry.element: />

<!ELEMENT indexentry (primaryie, (seeie|seealsoie)*, (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element-->

<!ENTITY % indexentry.attlist "INCLUDE">

<!ATTLIST indexentry
%common.attrib;
%indexentry.role.attrib;
%local.indexentry.attrib;
>
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<!-- ...................................................................... -->

<!-- This module contains the notation declarations used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<ENTITY % dbnotn PUBLIC "-//OASIS//ENTITIES DocBook Notations V4.3//EN" "dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- -->

<ENTITY % local.notation.class "%">
<ENTITY % notation.class "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | SVG | PDF | SWF | linespecific
%local.notation.class;">
<!-- File dbpool.mod ...................................................... -->

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referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the davenport@online.ora.com mailing list or to one of
the maintainers:

- Terry Allen, Fujitsu Software Corporation
  3055 Orchard Drive, San Jose, CA 95134
  <tallen@fsc.fujitsu.com>

- Eve Maler, ArborText Inc.
  105 Lexington St., Burlington, MA 01803
  <elm@arbortext.com>

-->  

<!-- ................................................................. -->

<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
publishing, and others are useful specifically for computer
documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is
  referenced in the NOTATION attributes for the graphic-related and
  ModeSpec elements.

- It assumes that an appropriately parameterized table module is
available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//Davenport//ELEMENTS DocBook Information Pool V3.0//EN">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- General-purpose semantics entities ................................... -->

```xml
<!ENTITY % yesorno.attvals"NUMBER">
<!ENTITY % yes.attval"1">
<!ENTITY % no.attval"0">
```

<!-- Entities for module inclusions ....................................... -->

```xml
<!ENTITY % dbpool.redecl.module "IGNORE">
```

<!-- Entities for element classes and mixtures ............................ -->

```xml
<!-- Object-level classes ................................................. -->
```

```xml
<!ENTITY % local.list.class "">
<!ENTITY % list.class
"CalloutList|GlossList|ItemizedList|OrderedList|SegmentedList |
SimpleList|VariableList %local.list.class;">```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"Caution|Important|Note|Tip|Warning %local.admon.class;">```

```xml
<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
"LiteralLayout|ProgramListing|ProgramListingCO|Screen |
ScreenCO|Screenshot %local.linespecific.class;">```

```xml
<!ENTITY % local.synop.class "">
<!ENTITY % synop.class
```

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<!ENTITY % local.tech.char.class "">

<!--FUTURE USE (V4.0):-->

MsgText will be removed from tech.char.class to a more appropriate parameter entity.

-->  

<!-- ENTITY % tech.char.class  
"Action|Application|ClassName|Command|ComputerOutput 
|Database|Email|EnVar|ErrorCode|ErrorName|ErrorMsg|Filename 
|Function|GUIButton|GUIIcon|GUILabel|GUIImage|GUIImageItem 
|GUIPopupMenu|Hardware|Interface|InterfaceDefinition|KeyCap 
|KeyCode|KeyCombo|KeySym|Literal|Markup|MediaLabel|MenuChoice 
|MouseButton|MsgText|Option|Optional|Parameter|Prompt|Property 
|Replaceable|ReturnValue|SGMLTag|StructField|StructName 
|Symbol|SystemItem|Token|Type|UserInput 
%local.tech.char.class;"-->

<!ENTITY % local.base.char.class "">

<!ENTITY % base.char.class " 
"Anchor %local.base.char.class;"-->

<!ENTITY % local.docinfo.char.class " 
<!ENTITY % docinfo.char.class " 
"Author|AuthorInitials|CorpAuthor|ModeSpec|OtherCredit 
|ProductName|ProductNumber|RevHistory 
%local.docinfo.char.class;"-->

<!ENTITY % local.other.char.class " 
<!ENTITY % other.char.class " 
"Comment|Subscript|Superscript %local.other.char.class;"-->

<!ENTITY % local.inlineobj.char.class " 
<!ENTITY % inlineobj.char.class " 
"InlineGraphic|InlineEquation %local.inlineobj.char.class;"-->

<!-- Redeclaration placeholder ............................................. -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Object-level mixtures ................................................ -->
| Component mixture | X X X X X X X | 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 2.10 2.11 |
| Sidebar mixture    | X X X X X X a X |
| Footnote mixture   | X X X X X |
| Example mixture    | X X X X X |
| Highlights mixture | X X X |
| Paragraph mixture  | X X X X |
| Admonition mixture | X X X X X X b c |
| Figure mixture     | X X X |
| Table entry mixture| X X X X d |
| Glossary def mixture| X X X X X e |
| Legal notice mixture| X X X X f |

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
<!ENTITY % formalobject.title.content "Title, TitleAbbrev?">

<!ENTITY % equation.content "(Graphic+)">

<!ENTITY % inlineequation.content "(Graphic+)">

<!ENTITY % programlisting.content "CO | LineAnnotation | %para.char.mix;">

<!ENTITY % screen.content "CO | LineAnnotation | %para.char.mix;">

<!ENTITY % arch.attrib
--Arch: Computer or chip architecture to which element applies; no
default--
"ArchCDATA#IMPLIED">

<!ENTITY % conformance.attrib
--Conformance: Standards conformance characteristics--
"ConformanceNMTOKENS#IMPLIED">

<!ENTITY % os.attrib
--OS: Operating system to which element applies; no default--
"OSCDATA#IMPLIED">

<!ENTITY % revision.attrib
--Revision: Editorial revision to which element belongs; no default--
"RevisionCDATA#IMPLIED">

<!ENTITY % userlevel.attrib
--UserLevel: Level of user experience to which element applies; no
default--
"UserLevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib
--Vendor: Computer vendor to which element applies; no default--
"VendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib "">
--Id: Unique identifier of element; no default--
"IdIDCDATA#IMPLIED">

<!ENTITY % idreq.attrib
--Id: Unique identifier of element; a value must be supplied; no
default--
"IdID#REQUIRED">

<!ENTITY % lang.attrib
--Lang: Indicator of language in which element is written, for
translation, character set management, etc.; no default--
"LangCDATA#IMPLIED">

<!ENTITY % remap.attrib
--Remap: Previous role of element before conversion; no default--
"RemapCDATA#IMPLIED">

<!ENTITY % role.attrib
--Role: New role of element in local environment; no default--
"RoleCDATA#IMPLIED">

<!ENTITY % xreflabel.attrib
--XRefLabel: Alternate labeling string for XRef text generation;
default is usually title or other appropriate label text already
contained in element--
"XRefLabelCDATA#IMPLIED">

<!ENTITY % revisionflag.attrib
--RevisionFlag: Revision status of element; default is that element
wasn't revised--
"RevisionFlag(Changed
|Added

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<!ENTITY % local.common.attrib "">  
<!ENTITY % common.attrib "%id.attrib; 
%lang.attrib; 
%remap.attrib; 
--Role is included explicitly on each element-- 
%xreflabel.attrib; 
%revisionflag.attrib; 
%effectivity.attrib; 
%local.common.attrib;">

--> Semi-common attributes and other attribute entities ................. -->

<!ENTITY % idreq.common.attrib "">  
<!ENTITY % idreq.attrib "%id.req.attrib; 
%lang.attrib; 
%remap.attrib; 
--Role is included explicitly on each element-- 
%xreflabel.attrib; 
%revisionflag.attrib; 
%effectivity.attrib; 
%local.common.attrib;">

<!-- EntityRef: Name of an external entity containing the content of the graphic-- 
EntityRefENTITY#IMPLIED

--FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic-- 
FileRef CDATA#IMPLIED

--Format: Notation of the element content, if any-- 
Format NOTATION (%notation.class;)
#IMPLIED

--SrcCredit: Information about the source of the Graphic-- 
SrcCredit CDATA#IMPLIED

--Width: Same as CALS reprowid (desired width)--
WidthNUTOKEN#IMPLIED

--Depth: Same as CALS reprodep (desired depth)--
DepthNUTOKEN#IMPLIED

--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific--
Align(Left | Right | Center)#IMPLIED

--Scale: Conflation of CALS hscale and vscale--
ScaleNUMBER#IMPLIED

--Scalefit: Same as CALS scalefit--
Scalefit%yesorno.atvals;
#IMPLIED
%local.graphics.attrib;"
>

<!ENTITY % local.keyaction.attrib "">
<!ENTITY % keyaction.attrib =

--Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value--
Action(Click | Double-Click | Press | Seq | Simul | Other)#IMPLIED

--OtherAction: User-defined key combination type--
OtherActionCDATA#IMPLIED"
>

<!ENTITY % label.attrib

--Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter-- "LabelCDATA#IMPLIED">

<!ENTITY % linespecific.attrib

--Format: whether element is assumed to contain significant white space-- "FormatNOTATION
(linespecific)linespecific"
<ENTITY % linkend.attrib
--Linkend: link to related information; no default--
"LinkendIDREF#IMPLIED">

<ENTITY % linkendreq.attrib
--Linkend: required link to related information--
"LinkendIDREF#REQUIRED">

<ENTITY % linkends.attrib
--Linkends: link to one or more sets of related information; no
default--
"LinkendsIDREFS#IMPLIED">

<ENTITY % linkendsreq.attrib
--Linkends: required link to one or more sets of related information--
"LinkendsIDREFS#REQUIRED">

<ENTITY % local.mark.attrib "">
<ENTITY % mark.attrib
"MarkCDATA#IMPLIED
%local.mark.attrib;">

<ENTITY % moreinfo.attrib
--MoreInfo: whether element's content has an associated RefEntry--
"MoreInfo(RefEntry|None)None">

<ENTITY % pagenum.attrib
--Pagenum: number of page on which element appears; no default--
"PagenumCDATA#IMPLIED">

<ENTITY % local.status.attrib "">
<ENTITY % status.attrib
--Status: Editorial or publication status of the element
it applies to, such as "in review" or "approved for distribution"--
"StatusCDATA#IMPLIED
%local.status.attrib;">

<ENTITY % width.attrib
--Width: width of the longest line in the element to which it
p pertains, in number of characters--
"WidthNUMBER#IMPLIED">

<!-- .......................................................... -->
<!-- Title elements ........................................... -->
</ENTITY % title.module "INCLUDE">
<!ENTITY % local.title.attrib "">
<!ENTITY % title.role.attrib "%role.attrib;">
<!ELEMENT Title - O ((%title.char.mix;)+)>
<!ATTLIST Title
%pagenum.attrib;
%common.attrib;
%title.role.attrib;
%local.title.attrib;
>
<!--end of title.module-->]]>

<!ENTITY % titleabbrev.module "INCLUDE">
<![ %titleabbrev.module; ]>
<!ENTITY % local.titleabbrev.attrib "">
<!ENTITY % titleabbrev.role.attrib "%role.attrib;">
<!ELEMENT TitleAbbrev - O ((%title.char.mix;)+)>
<!ATTLIST TitleAbbrev
%common.attrib;
%titleabbrev.role.attrib;
%local.titleabbrev.attrib;
>
<!--end of titleabbrev.module-->]]>

<!ENTITY % subtitle.module "INCLUDE">
<![ %subtitle.module; ]>
<!ENTITY % local.subtitle.attrib "">
<!ENTITY % subtitle.role.attrib "%role.attrib;">
<!ELEMENT Subtitle - O ((%title.char.mix;)+)>
<!ATTLIST Subtitle
%common.attrib;
%subtitle.role.attrib;
%local.subtitle.attrib;
>
<!--end of subtitle.module-->]]>

<![ %titleabbrev.module; ]>
<!ENTITY % local.person.ident.mix "">
<![ %titleabbrev.module; ]>
<!ENTITY % local.person.ident.mix "">
<!--FUTURE USE (V4.0):
.............................................................................
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new

Bibliographic entities and elements ..................................
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!ENTITY % local.person.ident.mix "">
<![ %titleabbrev.module; ]>
<!ENTITY % local.person.ident.mix "">
<!ENTITY % local.person.ident.mix "">
<!--FUTURE USE (V4.0):
..............................
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and a new

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wrapper element created to allow association of those two elements with
Author name information.

......................

<!ENTITY % person.ident.mix
"Honorific|FirstName|Surname|Lineage|OtherName|Affiliation
|AuthorBlurb|Contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
"Abbrev|Abstract|Address|ArtPageNums|Author
|AuthorGroup|AuthorInitials|BiblioMisc|BiblioSet
|Collab|ConfGroup|ContractNum|ContractSponsor
|Copyright|CorpAuthor|CorpName|Date|Edition
|Editor|InvPartNumber|ISBN|ISSN|IssueNum|OrgName
|OtherCredit|PageNums|PrintHistory|ProductName
|ProductNumber|PubDate|Publisher|PublisherName
|PubsNumber|ReleaseInfo|RevHistory|SeriesVolNums
|Subtitle|Title|TitleAbbrev|VolumeNum
|%person.ident.mix;
%local.bibliocomponent.mix;">

<!ENTITY % biblioentry.module "INCLUDE">
<!--FUTURE USE (V4.0):
The ArtHeader element will be renamed to ArticleInfo.

......................

-->  

<!ENTITY % biblioentry.role.attrib "%role.attrib;">

<!ELEMENT BiblioEntry - O ((ArtHeader | BookBiblio | SeriesInfo
| (%bibliocomponent.mix;))+) -(%ubiq.mix;)>
<!ATTLIST BiblioEntry
%common.attrib;
%biblioentry.role.attrib;
%local.bibliomixed.attrib;
>
</!--end of biblioentry.module-->]]>

<!ENTITY % bibliomixed.module "INCLUDE">

<!ENTITY % bibliomixed.module; [
<!ENTITY % local.bibliomixed.attrib "">
<!ENTITY % bibliomixed.role.attrib "%role.attrib;">
<!ELEMENT BiblioMixed - O (%bibliocomponent.mix; | BiblioMSet | #PCDATA)+
-(%ubiq.mix;)
<!ATTLIST BiblioMixed
%common.attrib;-> ]]>

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%common.attrib;
%bibliomisc.role.attrib;
%local.bibliomisc.attrib;
>
<!--end of bibliomisc.module-->]]>

<!-- .............................................. -->
<!-- Subject, Keyword, and ITermSet elements ......................... -->

<!ENTITY % subjectset.content.module "INCLUDE">
<![ %subjectset.content.module; ]
<!ENTITY % subjectset.module "INCLUDE">
<![ %subjectset.module; ]
<!ENTITY % local.subjectset.attrib "">
<!ENTITY % subjectset.role.attrib "%role.attrib;">
<!ELEMENT SubjectSet - - (Subject+)>
<!ATTLIST SubjectSet

--
Scheme: Controlled vocabulary employed in SubjectTerms
--
SchemeNAME#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<!--end of subjectset.module-->]]>

<!ENTITY % subject.module "INCLUDE">
<![ %subject.module; ]
<!ENTITY % local.subject.attrib "">
<!ENTITY % subject.role.attrib "%role.attrib;">
<!ELEMENT Subject - - (SubjectTerm+)>
<!ATTLIST Subject

--
Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified
--
WeightNUMBER#IMPLIED
%common.attrib;
%subject.role.attrib;
%local.subject.attrib;
>
<!--end of subject.module-->]]>

<!ENTITY % subjectterm.module "INCLUDE">
<![ %subjectterm.module; ]
<!ENTITY % local.subjectterm.attrib "">
<!ENTITY % subjectterm.role.attrib "%role.attrib;">

---
<!-- Compound (section-ish) elements ...................................... -->

<!ENTITY % msgset.content.module "INCLUDE">
<![ %msgset.content.module; ]>
<!ENTITY % msgset.module "INCLUDE">
<![ %msgset.module; ]>
<!ENTITY % local.msgset.attrib "">
<!ENTITY % msgset.role.attrib "%role.attrib;">
<!ELEMENT MsgSet - - (MsgEntry+)>
<!ATTLIST MsgSet
%common.attrib;
%msgset.role.attrib;
%local.msgset.attrib;
>
<!--end of msgset.module-->]]>

<!ENTITY % msgentry.module "INCLUDE">
<![ %msgentry.module; ]>
<!ENTITY % local.msgentry.attrib "">
<!ENTITY % msgentry.role.attrib "%role.attrib;">
<!ELEMENT MsgEntry - O (Msg+, MsgInfo?, MsgExplan*)>
<!ATTLIST MsgEntry
%common.attrib;
%msgentry.role.attrib;
%local.msgentry.attrib;
>
<!--end of msgentry.module-->]]>

<!ENTITY % msg.module "INCLUDE">
<![ %msg.module; ]>
<!ENTITY % local.msg.attrib "">
<!ENTITY % msg.role.attrib "%role.attrib;">
<!ELEMENT Msg - O (Title?, MsgMain, (MsgSub | MsgRel)*)>
<!ATTLIST Msg
%common.attrib;
%msg.role.attrib;
%local.msg.attrib;
>
<!--end of msg.module-->]]>

<!ENTITY % msgmain.module "INCLUDE">
<![ %msgmain.module; ]>
<!ENTITY % local.msgmain.attrib "">
<!ENTITY % msgmain.role.attrib "%role.attrib;">
<!ELEMENT MsgMain - O (Title?, Message, (MsgSub | MsgRel)*)>
<!ATTLIST MsgMain
%common.attrib;
%msgmain.role.attrib;
%local.msgmain.attrib;
>
<!--end of msgmain.module-->]]>
Epigraph will be disallowed from appearing in BlockQuote.

-->

ENTITY local.blockquote.attrib ""
ENTITY blockquote.role.attrib "role.attrib;"
ELEMENT BlockQuote - - (Title?, Attribution?, (%component.mix;)+)
ATTLIST BlockQuote
common.attrib;
blockquote.role.attrib;
local.blockquote.attrib;

</!-end of blockquote.module-->

ENTITY attribution.module "INCLUDE"
ENTITY %attribution.module; [
ENTITY local.attribution.attrib ""
ENTITY attribution.role.attrib "role.attrib;"
ELEMENT Attribution - O ((%para.char.mix;)+)
ATTLIST Attribution
common.attrib;
attribution.role.attrib;
local.attribution.attrib;

</!-end of attribution.module-->

ENTITY bridgehead.module "INCLUDE"
ENTITY %bridgehead.module; [
ENTITY local.bridgehead.attrib ""
ENTITY bridgehead.role.attrib "role.attrib;"
ELEMENT BridgeHead - - (%title.char.mix;+)
ATTLIST BridgeHead
Renderas: Indicates the format in which the BridgeHead should appear

Renderas(Other
| Sect1
| Sect2
| Sect3
| Sect4
| Sect5)#IMPLIED
common.attrib;
bridgehead.role.attrib;
local.bridgehead.attrib;

</!-end of bridgehead.module-->
GlossTerm will be excluded from itself. Also, GlossTerm *may* be split into an element that appears in a Glossary and an element that can
appear in the main text.

The Subject attribute will be renamed Keyword.

OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee

OtherTermIDREF#CONREF

OtherTermIDREF#CONREF

OtherTermIDREF#CONREF
OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso

OtherTermIDREF#CONREF
%common.attrib;
%glossseealso.role.attrib;
%local.glossseealso.attrib;
>
<![--end of glossseealso.module--]>
<![--end of glossentry.content.module--]>

<![-- ItemizedList and OrderedList ..... -->

<!ENTITY % itemizedlist.module "INCLUDE">
<![ %itemizedlist.module; [
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">
<!ELEMENT ItemizedList - - (ListItem+)>
<!ATTLIST ItemizedList

Spacing: Whether the vertical space in the list should be compressed

Spacing(Normal

|Compact)#IMPLIED

Mark: Keyword, e.g., bullet, dash, checkbox, none;
list of keywords and defaults are implementation specific

%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<![--end of itemizedlist.module--]>

<!ENTITY % orderedlist.module "INCLUDE">
<![ %orderedlist.module; [
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">
<!ELEMENT OrderedList - - (ListItem+)>
<!ATTLIST OrderedList

Numeration: Style of ListItem numbered; default is expected
to be Arabic

Numeration(Arabic
InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b)--
InheritNum(Inherit |Ignore)Ignore
--
Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)
--
Continuation(Continues |Restarts)Restarts
--
Spacing: Whether the vertical space in the list should be compressed
--
Spacing(Normal |Compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
<!--end of orderedlist.module-->]]>

<!ENTITY % listitem.module "INCLUDE">
<![ %listitem.module; [ 
<!ENTITY % local.listitem attrib ""
<!ENTITY % listitem.role attrib "%role.attrib;">
<!ELEMENT ListItem - O ((%component.mix;)+)>
<!ATTLIST ListItem
--
Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList
--
OverrideCDATA#IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
>
<!--end of listitem.module-->]]>
<!ENTITY % seg.role.attrib "%role.attrib;">  
<!ELEMENT Seg - O ((%para.char.mix;)+)>  
<!ATTLIST Seg %common.attrib;  
%seg.role.attrib;  
%local.seg.attrib;  
>  
<!--end of seg.module-->]]>  
<!--end of segmentedlist.content.module-->]]>  

<!-- SimpleList ....................... -->  

<!ENTITY % simplelist.content.module "INCLUDE">  
<![ %simplelist.content.module; [  
<!ENTITY % simplelist.module "INCLUDE">  
<![ %simplelist.module; [  
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">  
<!ELEMENT SimpleList - - (Member+)>  
<!ATTLIST SimpleList --Columns: The number of columns the array should contain  
Columns NUMBER #IMPLIED  
--Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc.  
inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column  
is 1 or implied, Type=Vert and Type=Horiz give the same results.  
--Type(Inline  
|Vert  
|Horiz)Vert  
%common.attrib;  
%simplelist.role.attrib;  
%local.simplelist.attrib;  
>  
<!--end of simplelist.module-->]]>  

<!ENTITY % member.module "INCLUDE">  
<![ %member.module; [  
<!ENTITY % local.member.attrib "">  
<!ENTITY % member.role.attrib "%role.attrib;">  
<!ELEMENT Member - O ((%para.char.mix;)+)>  
<!ATTLIST Member %common.attrib;
<!ENTITY % calloutlist.content.module "INCLUDE">
<!ENTITY % calloutlist.content.module [ %calloutlist.content.module; [ %ENTITY % calloutlist.content.module "INCLUDE" ]]> 
<!ENTITY % calloutlist.module "INCLUDE">
<!ENTITY % calloutlist.module [ %calloutlist.module; [ %ENTITY % local.calloutlist.attrib "" ]]> 
<!ENTITY % calloutlist.role.attrib "%role.attrib;"> 
<!ELEMENT CalloutList - - ((%formalobject.title.content;)?, Callout+)>
<!ATTLIST CalloutList 
%common.attrib; 
%calloutlist.role.attrib; 
%local.calloutlist.attrib; 
> 
<!--end of calloutlist.module-->]]>

<!ENTITY % callout.module "INCLUDE">
<!ENTITY % callout.module [ %callout.module; [ %ENTITY % local.callout.attrib "" ]]> 
<!ENTITY % callout.role.attrib "%role.attrib;"> 
<!ELEMENT Callout - O (%component.mix;)+)>
<!ATTLIST Callout 
-- 
AreaRefs: IDs of one or more Areas or AreaSets described by this Callout 
-- 
AreaRefsIDREFS#REQUIRED 
%common.attrib; 
%callout.role.attrib; 
%local.callout.attrib; 
> 
<!--end of callout.module-->]]>
<!--end of calloutlist.content.module-->]]>

<!-- ................................................................. -->
<!-- Objects .......................................................... -->

<!-- Examples etc. ......................... -->

<!ENTITY % example.module "INCLUDE">
<!ENTITY % example.module [ 

Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn)

--
Units CALSPair
| LineColumn
| LineRange
| LineColumnPair
| Other)#IMPLIED
--
OtherUnits: User-defined units
--
OtherUnitsNAME#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![ %area.module; [ 
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">
<!ELEMENT Area - O EMPTY>
<!ATTLIST Area
%label.attrib; --bug number/symbol override or initialization-->
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec

--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
--
OtherUnits: User-defined units

--
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![ %areaset.module; [ 
<!ENTITY % local.areaset.attrib ""> 
<!ENTITY % areaset.role.attrib "%role.attrib;"> 
<!ELEMENT AreaSet - - (Area+)> 
<!ATTLIST AreaSet %label.attrib; --bug number/symbol override or initialization--

--
Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec

--
Units(CALSPair
|LineColumn
|LineRange
|LineColumnPair
|Other)#IMPLIED
OtherUnitsNAME#IMPLIED
CoordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref). -->

------------------------------
Graphic will be declared EMPTY. This change will require that end-tags be removed and that any embedded graphic content be stored outside the SGML source and pointed to from an Entityref or Fileref attribute.

------------------------------

<!ENTITY % graphic.module "INCLUDE">
<![ %graphic.module; [ 
<!ENTITY % local.graphic.attrib "">
<!ENTITY % graphic.role.attrib "%role.attrib;">
<!ELEMENT Graphic - - CDATA>
<!ATTLIST Graphic
%graphics.attrib;
%common.attrib;
%graphic.role.attrib;
%local.graphic.attrib;
> 
<!end of graphic.module-->]]>

<!ENTITY % inlinegraphic.module "INCLUDE">
InlineGraphic will be declared EMPTY. This change will require that end-tags be removed and that any embedded graphic content be stored outside the SGML source and pointed to from an Entityref or Fileref attribute.

-->

<!-- Equations ........................ -->

<!ENTITY % equation.module "INCLUDE">
<![ %equation.module; [ 
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;"> 
<!ELEMENT Equation - - ((%formalobject.title.content;)?, (InformalEquation | (Alt?, %equation.content;)))> 
<!ATTLIST Equation %label.attrib; %common.attrib; %equation.role.attrib; %local.equation.attrib; > 
<!--end of equation.module-->]]>

<!ENTITY % informalequation.module "INCLUDE">
<![ %informalequation.module; [ 
<!ENTITY % local.informalequation.attrib "">
<!ENTITY % informalequation.role.attrib "%role.attrib;"> 
<!ELEMENT InformalEquation - - (Alt?, %equation.content;)> 
<!ATTLIST InformalEquation %common.attrib; %informalequation.role.attrib; %local.informalequation.attrib; > 
<!--end of informalequation.module-->]]>
<!ENTITY % tbl.table.excep "-(InformalTable|%.formal.class;)">

<!-- Remove pgbrk exception on Row. -->
<!ENTITY % tbl.row.excep "">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "((%tabentry.mix;)+ | (%para.char.mix;)+)">

<!-- Remove pgbrk exception on Entry. -->
<!ENTITY % tbl.entry.excep "">

<!-- Remove pgbrk exception on EntryTbl, but leave exclusion of itself. -->
<!ENTITY % tbl.entrytbl.excep "-(EntryTbl)" navbar:

<!-- Reference CALS table module. -->
<!ENTITY % calstbls PUBLIC "-//USA-DOD//DTD Table Model 951010//EN">
%calstbls;
<!--end of table.module-->>]

<!ENTITY % informaltable.module "INCLUDE">
<![ %informaltable.module; ]>

<!-- Note that InformalTable is dependent on some of the entity
declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib "">
<!ELEMENT InformalTable - - (Graphic+[TGroup+] %tbl.table.excep;>
<!ATTLIST InformalTable
  --
  Frame, Colsep, and Rowsep must be repeated because
  they are not in entities in the table module.
  --
  Frame(Top
  |Bottom
  |Topbot
  |All
  |Sides
  |None)#IMPLIED
  Colsep%yesorno.attvals)#IMPLIED
  Rowsep%yesorno.attvals)#IMPLIED
  %tbl.table.att; -- includes TabStyle, ToCentry, ShortEntry,
  Orient, PgWide --
  %bodyatt; -- includes Label --
  %secur; -- includes common attributes --
  %local.informaltable.attrib;
>}

<!--end of informaltable.module-->>]>

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<!ATTLIST Arg
  --
  Choice: Whether Arg must be supplied: Opt (optional to
  supply, e.g. [arg]; the default), Req (required to supply,
  e.g. {arg}), or Plain (required to supply, e.g. arg)
  --
  Choice/Opt
  [Req
  [Plain]Opt
  --
  Rep: whether Arg is repeatable: Norepeat (e.g. arg without
  ellipsis; the default), or Repeat (e.g. arg...)
  --
  Rep/Norepeat
  [Repeat]Norepeat
  %common.attrib;
  %arg.role.attrib;
  %local.arg.attrib;
>
<!--end of arg.module-->]]>

<!--end of group.module-->

<!ENTITY % group.module "INCLUDE">
<![ %group.module; [
<!--FUTURE USE (V4.0):

......................
The OptMult and ReqMult values for the Choice attribute on Group will be
removed. Use the Rep attribute instead to indicate that the choice is
repeatable.

......................
-->]

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">  
<!ELEMENT Group - - ((Arg | Group | Option | SynopFragmentRef
  | Replaceable | SBR)+)>  
<!ATTLIST Group
  --
  Choice: Whether Group must be supplied: Opt (optional to
  supply, e.g. [g1|g2|g3]; the default), Req (required to supply,
  e.g. {g1|g2|g3}), Plain (required to supply,
  e.g. g1|g2|g3), OptMult (can supply zero or more, e.g.
  [[g1][g2][g3]]), or ReqMult (must supply one or more, e.g.
The content model group starting with FuncDef will not be available; you will have to use FuncPrototype. Also, you will be able to have a mixture of FuncPrototypes and FuncSynopsisInfos (this is not backwards-incompatible all by itself).
<!ELEMENT FuncSynopsisInfo - O ((LineAnnotation | %cptr.char.mix;)* )>
<!ATTLIST FuncSynopsisInfo
%linespecific.attrib;
%common.attrib;
%funsynopsisinfo.role.attrib;
%local.funsynopsisinfo.attrib;
>
<!--end of funsynopsisinfo.module-->]]>

<!ENTITY % funcprototype.module "INCLUDE">
<![ %funcprototype.module; ]
<!ENTITY % local.funcprototype.attrib "">
<!ENTITY % funcprototype.role.attrib "%role.attrib;">
<!ELEMENT FuncPrototype - O (FuncDef, (Void | VarArgs | ParamDef+))>
<!ATTLIST FuncPrototype
%common.attrib;
%funcprototype.role.attrib;
%local.funcprototype.attrib;
>
<!--end of funcprototype.module-->]]>

<!ENTITY % funcdef.module "INCLUDE">
<![ %funcdef.module; ]
<!ENTITY % local.funcdef.attrib "">
<!ENTITY % funcdef.role.attrib "%role.attrib;">
<!ELEMENT FuncDef - - ((#PCDATA
| Replaceable
| Function)*)>
<!ATTLIST FuncDef
%common.attrib;
%funcdef.role.attrib;
%local.funcdef.attrib;
>
<!--end of funcdef.module-->]]>

<!ENTITY % void.module "INCLUDE">
<![ %void.module; ]
<!ENTITY % local.void.attrib "">
<!ENTITY % void.role.attrib "%role.attrib;">
<!ELEMENT Void - O EMPTY>
<!ATTLIST Void
%common.attrib;
%void.role.attrib;
%local.void.attrib;
>
<!--end of void.module-->]]>

<!ENTITY % varargs.module "INCLUDE">
<![%varargs.module; [>
<!ENTITY % local.varargs.attrib "">
<!ENTITY % varargs.role.attrib "%role.attrib;">  
<!ELEMENT VarArgs - O EMPTY>  
<!ATTLIST VarArgs  
%common.attrib;  
%varargs.role.attrib;  
%local.varargs.attrib;  
>  
<!-- end of varargs.module-->]]>

<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">  
<![ %paramdef.module; [ ]>  
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;">  
<!ELEMENT ParamDef - - ((#PCDATA | Replaceable | Parameter | FuncParams))>  
<!ATTLIST ParamDef  
%common.attrib;  
%paramdef.role.attrib;  
%local.paramdef.attrib;  
>  
<!-- end of paramdef.module-->]]>

<!ENTITY % funcparams.module "INCLUDE">  
<![ %funcparams.module; [ ]>  
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">  
<!ELEMENT FuncParams - - ((%cptr.char.mix;))>  
<!ATTLIST FuncParams  
%common.attrib;  
%funcparams.role.attrib;  
%local.funcparams.attrib;  
>  
<!-- end of funcparams.module-->]]>

<!--ELEMENT LineAnnotation (defined in the Inlines section, below)-->  
<!--ELEMENT Replaceable (defined in the Inlines section, below)-->  
<!--ELEMENT Function (defined in the Inlines section, below)-->  
<!--ELEMENT Parameter (defined in the Inlines section, below)-->  
<!--end of funcsynopsis.content.module-->]]>

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<!-- Document information entities and elements ......................... -->

<!-- The document information elements include some elements that are
currently used only in the document hierarchy module. They are
defined here so that they will be available for use in customized
document hierarchies. -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![ %docinfo.content.module; ]

<!-- Ackno ......................... -->

<!ENTITY % ackno.module "INCLUDE">
<![ %ackno.module; ]
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">  
<!ELEMENT Ackno - - (%docinfo.char.mix;)+>
<!ATTLIST Ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<!--end of ackno.module-->]]>

<!-- Address .......................... -->

<!ENTITY % address.content.module "INCLUDE">
<![ %address.content.module; ]
<!ENTITY % address.module "INCLUDE">
<![ %address.module; ]
<!ENTITY % local.address.attrib "">
<!ENTITY % address.role.attrib "%role.attrib;">  
<!ELEMENT Address - - (#PCDATA|Street|POB|Postcode|City|State|Country|Phone
|Fax|Email|OtherAddr)*>
<!ATTLIST Address
%linespecific.attrib;
%common.attrib;
%address.role.attrib;
%local.address.attrib;
>
<!--end of address.module-->]]>

<!ENTITY % street.module "INCLUDE">
<![ %street.module; ]
<!-- Personal identity elements ...... -->

<!-- These elements are used only within Author, Editor, and OtherCredit. -->

<!ENTITY % person.ident.module "INCLUDE">
<![%person.ident.module; [ 
<!--FUTURE USE (V4.0):
......................
AuthorBlurb and Affiliation will be removed from %person.ident.mix; and
a new wrapper element created to allow association of those two elements
with Contrib name information.
......................
--> 
<!ENTITY % contrib.module "INCLUDE">
<![%contrib.module; [ 
<!ENTITY % local.contrib.attrib "">
<!ENTITY % contrib.role.attrib "%role.attrib;">
<!ELEMENT Contrib - - ((%docinfo.char.mix;)+)>
<!ATTLIST Contrib
%common.attrib;
%contrib.role.attrib;
%local.contrib.attrib; >
<!--end of contrib.module-->]]>

<!ENTITY % firstname.module "INCLUDE">
<![%firstname.module; [ 
<!ENTITY % local.firstname.attrib "">
<!ENTITY % firstname.role.attrib "%role.attrib;">
<!ELEMENT FirstName - - ((%docinfo.char.mix;)+)>
<!ATTLIST FirstName
%common.attrib;
%firstname.role.attrib;
%local.firstname.attrib; >
<!--end of firstname.module-->]]>

<!ENTITY % honorific.module "INCLUDE">
<![%honorific.module; [ 
<!ENTITY % local.honorific.attrib "">
<!ENTITY % honorific.role.attrib "%role.attrib;">
<!ELEMENT Honorific - - ((%docinfo.char.mix;)+)>
<!ATTLIST Honorific
%common.attrib;
%honorific.role.attrib;
%local.honorific.attrib; >
<!ATTLIST PubDate
%common.attrib;
%pubdate.role.attrib;
%local.pubdate.attrib;
>
<!--end of pubdate.module-->

<!ENTITY % publisher.content.module "INCLUDE">
<![ %publisher.content.module; [
<!ENTITY % publisher.module "INCLUDE">
<![ %publisher.module; [
<!ENTITY % local.publisher.attrib "">
<!ENTITY % publisher.role.attrib "%role.attrib;">
<!ELEMENT Publisher - - (PublisherName, Address*)>
<!ATTLIST Publisher
%common.attrib;
%publisher.role.attrib;
%local.publisher.attrib;
>
<!--end of publisher.module-->

<!ENTITY % publishername.module "INCLUDE">
<![ %publishername.module; [
<!ENTITY % local.publishername.attrib "">
<!ENTITY % publishername.role.attrib "%role.attrib;">
<!ELEMENT PublisherName - - ((%docinfo.char.mix;)+)>
<!ATTLIST PublisherName
%common.attrib;
%publishername.role.attrib;
%local.publishername.attrib;
>
<!--end of publishername.module-->

<!--ELEMENT Address (defined elsewhere in this section)--> 

<!ENTITY % pubsnumber.module "INCLUDE">
<![ %pubsnumber.module; [
<!ENTITY % local.pubsnumber.attrib "">
<!ENTITY % pubsnumber.role.attrib "%role.attrib;">
<!ELEMENT PubsNumber - - ((%docinfo.char.mix;)+)>
<!ATTLIST PubsNumber
%common.attrib;
%pubsnumber.role.attrib;
<!ENTITY % command.role.attrib "%role.attrib;">  
<!ELEMENT Command - - (((%cptr.char.mix;)+)>  
<!ATTLIST Command  
%moreinfo.attrib;  
%common.attrib;  
%command.role.attrib;  
%local.command.attrib;  
>  
<!--end of command.module-->]]>  

<!ENTITY % computeroutput.module "INCLUDE">  
<![%computeroutput.module; [  
<!ENTITY % local.computeroutput.attrib "">  
<!ELEMENT ComputerOutput - - (((%cptr.char.mix;)+)>  
<!ATTLIST ComputerOutput  
%moreinfo.attrib;  
%common.attrib;  
%computeroutput.role.attrib;  
%local.computeroutput.attrib;  
>  
<!--end of computeroutput.module-->]]>  

<!ENTITY % database.module "INCLUDE">  
<![%database.module; [  
<!--FUTURE USE (V4.0):  
......................  
Database will have its content constrained to smallcptr.char.mix.  
......................  
-->  
<!ENTITY % local.database.attrib "">  
<!ENTITY % database.role.attrib "%role.attrib;">  
<!ELEMENT Database - - (((%cptr.char.mix;)+)>  
<!ATTLIST Database  
Class: Type of database the element names; no default  
Class (Name  
|Table  
|Field  
|Key1  
|Key2  
|Record)#IMPLIED  
%moreinfo.attrib;  
%common.attrib;  
%database.role.attrib;  
%local.database.attrib;  
>
<ENTITY % hardware.role.attrib "%role.attrib;">
<ENTITY Hardware - - (\%cptr.char.mix;)+>
<ATTLIST Hardware
%moreinfo.attrib;
%common.attrib;
%hardware.role.attrib;
%local.hardware.attrib;
>
<!--end of hardware.module-->]]>

<!ENTITY % interface.module "INCLUDE">
<![ %interface.module; [
<!--FUTURE USE (V4.0):
--------------
Interface will no longer have a Class attribute; if you want to subclass interface information, use GUIButton, GUIIcon, GUILabel, GUIMenu, GUIMenuItem, or GUISubMenu, or use a Role value on Interface. Also, Interface will have its content constrained to smallcptr.char.mix.
--------------
--->>
<ENTITY % local.interface.attrib "">
<ENTITY % interface.role.attrib "%role.attrib;">
<ENTITY Interface - - (\%cptr.char.mix;|Accel)+>
<ATTLIST Interface
--
Class: Type of the Interface item; no default
--
Class (Button
|Icon
|Menu
|MenuItem)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%interface.role.attrib;
%local.interface.attrib;
>
<!--end of interface.module-->]]>

<!ENTITY % interfacedefinition.module "INCLUDE">
<![ %interfacedefinition.module; [
<!--FUTURE USE (V4.0):
--------------
InterfaceDefinition will be discarded.
--------------
--->>
<ENTITY % local.interfacedefinition.attrib "">
<ENTITY % interfacedefinition.role.attrib "%role.attrib;">
<ENTITY InterfaceDefinition - - (\%cptr.char.mix;)+>
KeyCap will have its content constrained to smallcptr.char.mix.

-->

<!ENTITY % local.keycap.attrib ""

<!ENTITY % keycap.role.attrib "%role.attrib;">

<!ELEMENT KeyCap - - ((%cptr.char.mix;)+)

<!ATTLIST KeyCap
%moreinfo.attrib;
%common.attrib;
%keycap.role.attrib;
%local.keycap.attrib;
>

<!--end of keycap.module-->]]>

<!ENTITY % keycode.module "INCLUDE">

<!--FUTURE USE (V4.0):
......................
KeyCap will have its content constrained to smallcptr.char.mix.
......................
-->""

<!ENTITY % local.keycode.attrib ""

<!ENTITY % keycode.role.attrib "%role.attrib;">

<!ELEMENT KeyCode - - ((%smallcptr.char.mix;)+)

<!ATTLIST KeyCode
%common.attrib;
%keycode.role.attrib;
%local.keycodeattrib;
>

<!--end of keycode.module-->]]>

<!ENTITY % keycombo.module "INCLUDE">

<!ENTITY % local.keycombo.attrib ""

<!ENTITY % keycombo.role.attrib "%role.attrib;">

<!ELEMENT KeyCombo - - ((KeyCap|KeyCombo|KeySym|MouseButton)+)

<!ATTLIST KeyCombo
%keyaction.attrib;
%moreinfo.attrib;
%common.attrib;
%keycombo.role.attrib;
>
<!ENTITY % local.shortcut.attrib "">
<!ENTITY % shortcut.role.attrib "%role.attrib;">  
<!ELEMENT Shortcut - - ((KeyCap|KeyCombo|KeySym|MouseButton)+)>  
<!ATTLIST Shortcut  
%keyaction.attrib;  
%moreinfo.attrib;  
%common.attrib;  
%shortcut.role.attrib;  
%local.shortcut.attrib;  
>  
<!--end of shortcut.module-->]]>
<!--end of menuchoice.content.module-->]]>

<!ENTITY % mousebutton.module "INCLUDE">  
<![ %mousebutton.module; [ 
<!ENTITY % local.mousebutton.attrib "">
<!ENTITY % mousebutton.role.attrib "%role.attrib;">  
<!ELEMENT MouseButton - - (%smallcptr.char.mix;)+)>  
<!ATTLIST MouseButton  
%moreinfo.attrib;  
%common.attrib;  
%mousebutton.role.attrib;  
%local.mousebutton.attrib;  
>  
<!--end of mousebutton.module-->]]>

<!ENTITY % msgtext.module "INCLUDE">  
<![ %msgtext.module; [ 
<!ENTITY % local.msgtext.attrib "">
<!ENTITY % msgtext.role.attrib "%role.attrib;">  
<!ELEMENT MsgText - - (%component.mix;)+)>  
<!ATTLIST MsgText  
%common.attrib;  
%msgtext.role.attrib;  
%local.msgtext.attrib;  
>  
<!--end of msgtext.module-->]]>

<!ENTITY % option.module "INCLUDE">  
<![ %option.module; [ 
<!ENTITY % local.option.attrib "">
<!ENTITY % option.role.attrib "%role.attrib;">  
<!ELEMENT Option - - (%cptr.char.mix;)+)>  
<!--FUTURE USE (V4.0):  
......................  
Option will have its content constrained to smallcptr.char.mix.  
......................  
-->  
<!ENTITY % local.option.attrib "">
<!ENTITY % option.role.attrib "%role.attrib;">  
<!ELEMENT Option - - (%cptr.char.mix;)+)>
<!ATTLIST Prompt
%moreinfo.attrib;
%common.attrib;
%prompt.role.attrib;
%local.prompt.attrib;
>
<!--end of prompt.module-->]]>

<!ENTITY % property.module "INCLUDE">
<![ %property.module; [ 
<!--FUTURE USE (V4.0):
......................
Property will have its content constrained to smallcptr.char.mix.
......................
--> 
<!ENTITY % local.property.attrib "">
<!ENTITY % property.role.attrib "%role.attrib;"> 
<!ELEMENT Property - - ((%cptr.char.mix;)+)> 
<!ATTLIST Property
%moreinfo.attrib;
%common.attrib;
%property.role.attrib;
%local.property.attrib;
>
<!--end of property.module-->]]>

<!ENTITY % replaceable.module "INCLUDE">
<![ %replaceable.module; [ 
<!ENTITY % local.replaceable.attrib "">
<!ENTITY % replaceable.role.attrib "%role.attrib;"> 
<!ELEMENT Replaceable - - ((#PCDATA | %link.char.class; | Optional | %base.char.class; | %other.char.class; | InlineGraphic;)+)> 
<!ATTLIST Replaceable 
Class: Type of information the element represents; no
default 
Class(Command |Function |Option |Parameter)#IMPLIED 
%common.attrib;
%replaceable.role.attrib;
%local.replaceable.attrib;
<!ATTLIST SystemItem
--
Class: Type of system item the element names; no default
--
Class(Constant
|EnvirionVar
|Macro
|OSname
|Prompt
|Resource
|SystemName)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%systemitem.role.attrib;
%local.systemitem.attrib;
>
<!--end of systemitem.module-->]]>

<!ENTITY % token.module "INCLUDE">
<![ token.module; [ ]
<!ENTITY % local.token.attrib "">
<!ENTITY % token.role.attrib "%role.attrib;">
<!ELEMENT Token - - ((%smallcptr.char.mix;)+)
<!ATTLIST Token
%common.attrib;
%token.role.attrib;
%local.token.attrib;
>
<!--end of token.module-->]]>

<!ENTITY % type.module "INCLUDE">
<![ type.module; [ ]
<!ENTITY % local.type.attrib "">
<!ENTITY % type.role.attrib "%role.attrib;">
<!ELEMENT Type - - ((%smallcptr.char.mix;)+)
<!ATTLIST Type
%common.attrib;
%type.role.attrib;
%local.type.attrib;
>
<!--end of type.module-->]]>

<!ENTITY % userinput.module "INCLUDE">
<![ userinput.module; [ ]
<!ENTITY % local.userinput.attrib "">
<!ENTITY % userinput.role.attrib "%role.attrib;">
<!ELEMENT UserInput - - ((%cptr.char.mix;)+)
<!ENTITY % moreinfo.attrib;>
<!ENTITY % common.attrib;>
<!ENTITY % userinput.role.attrib;>
<!ENTITY % local.userinput.attrib;>
>
<!-- General words and phrases ............................................ -->

<!ENTITY % abbrev.module "INCLUDE">
<![ %abbrev.module; ]>
<!ENTITY % local.abbrev.attrib "">
<!ENTITY % abbrev.role.attrib "%role.attrib;">
<!ELEMENT Abbrev - - ((%word.char.mix;)+)>
<!ATTLIST Abbrev
%common.attrib;
%abbrev.role.attrib;
%local.abbrev.attrib;
>
<!--end of abbrev.module-->
]
]

<!ENTITY % acronym.module "INCLUDE">
<![ %acronym.module; ]>
<!ENTITY % local.acronym.attrib "">
<!ENTITY % acronym.role.attrib "%role.attrib;">
<!ELEMENT Acronym - - ((%word.char.mix;)+) -(Acronym)>
<!ATTLIST Acronym
%common.attrib;
%acronym.role.attrib;
%local.acronym.attrib;
>
<!--end of acronym.module-->
]
]

<!ENTITY % citation.module "INCLUDE">
<![ %citation.module; ]>
<!ENTITY % local.citation.attrib "">
<!ENTITY % citation.role.attrib "%role.attrib;">
<!ELEMENT Citation - - ((%para.char.mix;)+)>
<!ATTLIST Citation
%common.attrib;
%citation.role.attrib;
%local.citation.attrib;
>
<!--end of citation.module-->
]
]

<!ENTITY % citerefentry.module "INCLUDE">
<![ %citerefentry.module; ]>
<!-- Links and cross-references ........................................... -->
All link elements will be excluded from themselves and each other.

--

<!ENTITY % local.link.attrib "">
<!ENTITY % link.role.attrib "%role.attrib;">
<!ELEMENT Link - - ((%para.char.mix;)+)>
<!ATTLIST Link
  --
  Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element
  --
  EndtermIDREF#IMPLIED
  %linkendreq.attrib; --to linked-to object--
  --
  Type: Freely assignable parameter
  --
  TypeCDATA#IMPLIED
  %common.attrib;
  %link.role.attrib;
  %local.link.attrib;
>
<!--end of link.module-->]

<!ENTITY % olink.module "INCLUDE">   
<![ %oolink.module; 
<!ENTITY % local.olink.attrib "">
<!ENTITY % olink.role.attrib "%role.attrib;">
<!ELEMENT OLink - - ((%para.char.mix;)+)>
<!ATTLIST OLink
  --
  TargetDocEnt: Name of an entity to be the target of the link
  --
  TargetDocEntENTITY #IMPLIED
  --
  LinkMode: ID of a ModeSpec containing instructions for operating on the entity named by TargetDocEnt
  --
  LinkModeIDREF#IMPLIED
  --
  LocalInfo: Information that may be passed to ModeSpec
  --
  LocalInfo CDATA#IMPLIED
Type: Freely assignable parameter

Type CDATA #IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
>
<!--end of olink.module-->

<!ENTITY % ulink.module "INCLUDE">
<![ %ulink.module; [ 
<!ENTITY % local.ulink.attrib "">
<!ENTITY % ulink.role.attrib "%role.attrib;">
<!ELEMENT ULink - -((%para.char.mix;)+)>
<!ATTLIST ULink
  URL: uniform resource locator; the target of the ULink
  URL CDATA #REQUIRED
  Type: Freely assignable parameter
  Type CDATA #IMPLIED
  %common.attrib;
  %ulink.role.attrib;
  %local.ulink.attrib;
  >
<!--end of ulink.module-->

<!ENTITY % footnoteref.module "INCLUDE">
<![ %footnoteref.module; [ 
<!ENTITY % local.footnoteref.attrib "">
<!ENTITY % footnoteref.role.attrib "%role.attrib;">
<!ELEMENT FootnoteRef - O EMPTY>
<!ATTLIST FootnoteRef
  %linkendreq.attrib; --to footnote content supplied elsewhere--
  %label.attrib;
  %common.attrib;
  %footnoteref.role.attrib;
  %local.footnoteref.attrib;
  >
<!--end of footnoteref.module-->

<!ENTITY % xref.module "INCLUDE">
<![ %xref.module; [ 
<!ENTITY % local.xref.attrib "">
<!ENTITY % xref.role.attrib "%role.attrib;">
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.4.zip-cosi-expand-archive-xcVgNXBw/calstblx.dtd

No license file was found, but licenses were detected in source scan.

03 13:23:24Z nwalsh $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.5.zip-cosi-expand-archive-A7LkIFyZ/docbookx.dtd
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-xml-4.5.zip-cosi-expand-archive-zH39CNMP/docbookx.dtd
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.2 ......................... -->
<!-- File dbpoolx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbpoolx.mod,v 1.46 2002/07/17 15:26:16 nwalsh Exp $

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changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
publishing, and others are useful specifically for computer
documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is
referenced in the NOTATION attributes for the graphic-related and
ModeSpec elements.

- It assumes that an appropriately parameterized table module is
available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.2//EN"
"dbhoolx.mod">
%dbhool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % yesorno.attvals"CDATA">
<!ENTITY % dbpool.redecl.module "IGNORE">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
```

```xml
<!ENTITY % yesorno.attvals"CDATA">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
```

```xml
<!ENTITY % yesorno.attvals"CDATA">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
```

```xml
<!ENTITY % yesorno.attvals"CDATA">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
```

```xml
<!ENTITY % yesorno.attvals"CDATA">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
```
Object-level mixtures .............................................. -->

<table>
<thead>
<tr>
<th>List admn line synp para infm form cmpd gen desc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component mixture</td>
</tr>
<tr>
<td>Sidebar mixture</td>
</tr>
<tr>
<td>Footnote mixture</td>
</tr>
<tr>
<td>Example mixture</td>
</tr>
<tr>
<td>Highlights mixture</td>
</tr>
<tr>
<td>Paragraph mixture</td>
</tr>
<tr>
<td>Admonition mixture</td>
</tr>
<tr>
<td>Figure mixture</td>
</tr>
<tr>
<td>Table entry mixture</td>
</tr>
<tr>
<td>Glossary def mixture</td>
</tr>
<tr>
<td>Legal notice mixture</td>
</tr>
</tbody>
</table>

a. Just Procedure; not Sidebar itself or MsgSet.
b. No Sidebar.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook ""

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class;  |beginpage
  %forminlines.hook;
%local.para.char.mix;">  

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%ndxterm.class;
%local.title.char.mix;">  

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|inlinegraphic|inlinemediaobject
%local.ndxterm.char.mix;">  

<!ENTITY % local.cptr.char.mix "">
<!ENTITY % cptr.char.mix
"#PCDATA
|%link.char.class;|%tech.char.class;
|%base.char.class;
|%other.char.class;|inlinegraphic|inlinemediaobject
|%ndxterm.class;  |beginpage
%local.cptr.char.mix;">  

<!ENTITY % local.smallcptr.char.mix "">

<!ENTITY % smallcptr.char.mix "#PCDATA
replaceable
|inlinegraphic|inlinemediaobject
|%ndxterm.class; |beginpage
%local.smallcptr.char.mix;">}

<!ENTITY % local.word.char.mix "">
<!ENTITY % word.char.mix "#PCDATA
|acronym|emphasis|trademark
|%link.char.class;
|%base.char.class;
|%other.char.class;inlinegraphic|inlinemediaobject
|%ndxterm.class; |beginpage
%local.word.char.mix;">}

<!ENTITY % local.docinfo.char.mix "">
<!ENTITY % docinfo.char.mix "#PCDATA
|%link.char.class;
|emphasis|trademark
|replaceable
|%other.char.class;inlinegraphic|inlinemediaobject
|%ndxterm.class;
%local.docinfo.char.mix;">}

<!--ENTITY % bibliocomponent.mix (see Bibliographic section, below)-->  
<!--ENTITY % person.ident.mix (see Bibliographic section, below)-->  

<!-- ............................................. -->
<!-- Entities for attributes and attribute components ................. -->

<!-- Effectivity attributes ........................................ -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib "archCDATA#IMPLIED">  

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">  

<!-- Conformance: Standards conformance characteristics -->
<!ENTITY % conformance.attrib
"conformanceNMTOKENS#IMPLIED">

<!ENTITY % os.attrib
"osCDATA#IMPLIED">

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
    %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
    %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;">

<!ENTITY % local.effectivity.attrib "">

<!-- Common attributes .................................................... -->
<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib "roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib "xreflabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib "revisionflag(changed |added |deleted |off)#IMPLIED">
<!ENTITY % local.common.attrib "">

<!-- Role is included explicitly on each element -->

<!ENTITY % common.attrib
  "%id.attrib;
  %lang.attrib;
  %remap.attrib;
  %xreflabel.attrib;
  %revisionflag.attrib;
  %effectivity.attrib;
  %local.common.attrib;">

<!-- Role is included explicitly on each element -->

<!ENTITY % idreq.common.attrib
  "%idreq.attrib;
  %lang.attrib;
  %remap.attrib;
  %xreflabel.attrib;
  %revisionflag.attrib;
  %effectivity.attrib;
  %local.common.attrib;">

<!-- Semi-common attributes and other attribute entities ................. -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprod (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib
  "" entityref ENTITY #IMPLIED
<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib "action(click
|double-click
|press
|seq
|simul
|other)#IMPLIED
otheractionCDATA#IMPLIED
%local.keyaction.attrib;" >

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA#IMPLIED">
<!ENTITY % linespecific.attrib
"format NOTATION
(linespecific) 'linespecific'
linenumbering(numbered|unnumbered) #IMPLIED">

<!-- Linkend: link to related information; no default -->

<!ENTITY % linkend.attrib
"linkendIDREF#IMPLIED">

<!-- Linkend: required link to related information -->

<!ENTITY % linkendreq.attrib
"linkendIDREF#REQUIRED">

<!-- Linkends: link to one or more sets of related information; no default -->

<!ENTITY % linkends.attrib
"linkendsIDREFS#IMPLIED">

<!ENTITY % local.mark.attrib "">
<!ENTITY % mark.attrib
"markCDATA#IMPLIED
%local.mark.attrib;">

<!-- MoreInfo: whether element's content has an associated RefEntry -->

<!ENTITY % moreinfo.attrib
"moreinfo(refentry|none)'none'">

<!-- Pagenum: number of page on which element appears; no default -->

<!ENTITY % pagenum.attrib
"pagenumCDATA#IMPLIED">

<!ENTITY % local.status.attrib "">

<!-- Status: Editorial or publication status of the element it applies to, such as "in review" or "approved for distribution" -->
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->
<!DOCTYPE %biblioentry.module "INCLUDE">
<![%biblioentry.module;]
<!ENTITY % local.biblioentry.attrib ""->
<!ENTITY % biblioentry.role.attrib "%role.attrib;"->

<!ENTITY % biblioentry.element "INCLUDE">
<![%biblioentry.element;]
<!ELEMENT biblioentry %ho; ((articleinfo | (%bibliocomponent.mix;))+)
%ubiq.exclusion;>
<!--end of biblioentry.element-->
]]>

<!ENTITY % biblioentry.attlist "INCLUDE">
<![%biblioentry.attlist;]
<!ATTLIST biblioentry
%common.attrib;
%biblioentry.role.attrib;
%local.biblioentry.attrib;
>
<!--end of biblioentry.attlist-->
]]>

<!ENTITY % bibliomixed.module "INCLUDE">
<![%bibliomixed.module;]
<!ENTITY % local.bibliomixed.attrib ""->
<!ENTITY % bibliomixed.role.attrib "%role.attrib;"->

<!ENTITY % bibliomixed.element "INCLUDE">
<![%bibliomixed.element;]
<!ELEMENT bibliomixed %ho; (#PCDATA | %bibliocomponent.mix; | bibliomset)*
%ubiq.exclusion;>
<!-- Relation: Relationship of elements contained within BiblioSet -->
<!-- Relation: Relationship of elements contained within BiblioMSet -->
%common.attrib;
%bibliomisc.role.attrib;
%local.bibliomisc.attrib;
>
<!--end of bibliomisc.attlist-->]]>
<!--end of bibliomisc.module-->]]>

<!-- .......................................................... -->
<!-- Subject, Keyword, and ITermSet elements ................... -->

<!-- ENTITY % subjectset.content.module "INCLUDE"-->
<![[%subjectset.content.module;[
<!-- ENTITY % subjectset.module "INCLUDE"-->
<![[%subjectset.module;[
<!-- ENTITY % local.subjectset.attrib ""-->
<![ENTITY % subjectset.role.attrib "%role.attrib;">

<!-- ENTITY % subjectset.element "INCLUDE"-->
<![[%subjectset.element;[
<!-- ELEMENT subjectset %ho; (subject+)-->
<![!--end of subjectset.element--]]>

<!-- Scheme: Controlled vocabulary employed in SubjectTerms -->

<!-- ENTITY % subjectset.attlist "INCLUDE"-->
<![[%subjectset.attlist;[
<!-- ATTLIST subjectset schemeNMTOKEN#IMPLIED
%common.attrib;
%subjectset.role.attrib;
%local.subjectset.attrib;
>
<![!--end of subjectset.attlist--]]>
<![!--end of subjectset.module--]]>

<!-- ENTITY % subject.module "INCLUDE"-->
<![[%subject.module;[
<!-- ENTITY % local.subject.attrib ""-->
<![ENTITY % subject.role.attrib "%role.attrib;">

<!-- ENTITY % subject.element "INCLUDE"-->
<![[%subject.element;[
<!-- ELEMENT subject %ho; (subjectterm+)-->
<![!--end of subject.element--]]>

<!-- Weight: Ranking of this group of SubjectTerms relative
to others, 0 is low, no highest value specified -->
<!DOCTYPE msg [
<!ENTITY % local.msg attrib "">
<!ENTITY % msg.role.attrib "%role.attrib;">

<!ENTITY % msg.element "INCLUDE">
<![%msg.element; [
<!ELEMENT msg %ho; (title?, msgmain, (msgsub | msgrel)*)>
<!!--end of msg.element--]]>

<!ENTITY % msg.attlist "INCLUDE">
<![%msg.attlist; [
<!ATTLIST msg
%common.attrib;
%msg.role.attrib;
%local.msg.attrib;
>]
<!!--end of msg.attlist--]]>

<!ENTITY % msgmain.module "INCLUDE">
<![%msgmain.module; [
<!ENTITY % local.msgmain attrib "">
<!ENTITY % msgmain.role.attrib "%role.attrib;">

<!ENTITY % msgmain.element "INCLUDE">
<![%msgmain.element; [
<!ELEMENT msgmain %ho; (title?, msgtext)>
<!!--end of msgmain.element--]]>

<!ENTITY % msgmain.attlist "INCLUDE">
<![%msgmain.attlist; [
<!ATTLIST msgmain
%common.attrib;
%msgmain.role.attrib;
%local.msgmain.attrib;
>]
<!!--end of msgmain.attlist--]]>

<!ENTITY % msgsub.module "INCLUDE">
<![%msgsub.module; [
<!ENTITY % local.msgsub attrib "">
<!ENTITY % msgsub.role.attrib "%role.attrib;">

<!ENTITY % msgsub.element "INCLUDE">
<![%msgsub.element; [
<!ELEMENT msgsub %ho; (title?, msgtext)>
<!!--end of msgsub.element--]]>

---

Open Source Used In OnPrem2.1 2.2 32532
<!ENTITY % msgsub.attlist "INCLUDE">
<![%msgsub.list:[
<!ATTLIST msgsub%
%common.attrib;
%msgsub.role.attrib;
%local.msgsub.attrib;
>[
<!--end of msgsub.attlist-->]]>
<!--end of msgsub.module-->]]>

<!ENTITY % msgrel.module "INCLUDE">
<![%msgrel.module;[
<!ENTITY % local.msgrel.attrib "">
<!ENTITY % msgrel.role.attrib "%role.attrib;">[
<!ENTITY % msgrel.element "INCLUDE">
<![%msgrel.element;[
<!ELEMENT msgrel %ho; (title?, msgtext)>
<!--end of msgrel.element-->]]>
<!--end of msgrel.module-->]]>

<!ENTITY % msginfo.module "INCLUDE">
<![%msginfo.module;[
<!ENTITY % local.msginfo.attrib "">
<!ENTITY % msginfo.role.attrib "%role.attrib;">[
<!ENTITY % msginfo.element "INCLUDE">
<![%msginfo.element;[
<!ELEMENT msginfo %ho; ((msglevel | msgorig | msgaud)*)>]
<!--end of msginfo.element-->]]>
<!--end of msginfo.module-->]]>

<!-- MsgText (defined in the Inlines section, below)-->
<ENTITY % attribution.attlist "INCLUDE">
<!ATTLIST attribution %common.attrib; %attribution.role.attrib; %local.attribution.attrib; >
</ENTITY % attribution.attlist->]]>
</ENTITY % attribution.module->]]>

<!ENTITY % bridgehead.module "INCLUDE">
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;"> 

<!ENTITY % bridgehead.element "INCLUDE">
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;"> 

<!ENTITY % bridgehead.attlist "INCLUDE">
<!ATTLIST bridgehead %common.attrib; %bridgehead.role.attrib; %local.bridgehead.attrib; >
</ENTITY % bridgehead.attlist->]]>
</ENTITY % bridgehead.module->]]>

<!ENTITY % remark.module "INCLUDE">
<!ENTITY % local.remark.attrib "">
<!ENTITY % remark.role.attrib "%role.attrib;"> 

<!ENTITY % remark.attlist "INCLUDE">
<!ATTLIST remark %common.attrib; %remark.role.attrib; >
</ENTITY % remark.attlist->]]>
</ENTITY % remark.module->]]>

<!-- Renderas: Indicates the format in which the BridgeHead should appear -->
> <!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
> <!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
> <!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
> <!-- Spacing: Whether the vertical space in the list should be compressed -->

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- end of orderedlist.module-->

<!ENTITY % listitem.module "INCLUDE">
<![%listitem.module;]
<!ENTITY % local.listitem.attrib """>
<!ENTITY % listitem.role.attrib "%role.attrib;">

<!ENTITY % listitem.element "INCLUDE">
<![%listitem.element;]
<!ELEMENT listitem %ho; ((%component.mix;)+)>
<!--end of listitem.element-->

<!-- Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->

<!ENTITY % listitem.attlist "INCLUDE">
<![%listitem.attlist;]
<!ATTLIST listitem
override CDATA #IMPLIED
%common.attrib;
%listitem.role.attrib;
%local.listitem.attrib;
>
<!--end of listitem.attlist-->

<!--end of listitem.module-->

<!-- SegmentedList .................... -->
<!ENTITY % segmentedlist.content.module "INCLUDE">
<![%segmentedlist.content.module;]
<!ENTITY % segmentedlist.module "INCLUDE">
<![%segmentedlist.module;]
<!ENTITY % local.segmentedlist.attrib "" >
<!ENTITY % segmentedlist.role.attrib "%role.attrib;">

<!ENTITY % segmentedlist.element "INCLUDE">
<![%segmentedlist.element;]
<!ELEMENT segmentedlist %ho; ((%formalobject.title.content;)?,
  segtitle+,
  seglistitem+)>
<!--end of segmentedlist.element-->

<!ENTITY % segmentedlist.attlist "INCLUDE">
<![%segmentedlist.attlist;]
<!ATTLIST segmentedlist
%common.attrib;
%segmentedlist.role.attrib;
<!ENTITY % seg.role.attrib "%role.attrib;">

<!ENTITY % seg.element "INCLUDE">
<![%seg.element;]
<!ELEMENT seg %ho; (%para.char.mix;)*>
<!--end of seg.element-->
]

<!ENTITY % seg.attlist "INCLUDE">
<![%seg.attlist;]
<!ATTLIST seg
%common.attrib;
%seg.role.attrib;
%local.seg.attrib;
>
<!--end of seg.attlist-->
]

<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;]
<!ENTITY % simplelist.module "INCLUDE">
<![%simplelist.module;]
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">
</!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;]
<!ELEMENT simplelist %ho; (member+)>
<!--end of simplelist.element-->
]

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;]
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline|vert|horiz)"vert"
<!ENTITY % calloutlist.content.module "INCLUDE">  
<![calloutlist.content.module;]>
<!ENTITY % calloutlist.module "INCLUDE">  
<![calloutlist.module;]>
<!ENTITY % local.calloutlist.attrib "">  
<!ENTITY % calloutlist.role.attrib "%role.attrib;">  

<!ENTITY % calloutlist.element "INCLUDE">  
<![calloutlist.element;]>  
<!ELEMENT callout %ho; ((%formalobject.title.content;)?, callout)+>  
<!end of calloutlist.element-->]]>

<!ENTITY % calloutlist.attlist "INCLUDE">  
<![calloutlist.attlist;]>
<!ATTLIST calloutlist
%common.attrib;
%calloutlist.role.attrib;
%local.calloutlist.attrib;
>  
<!end of calloutlist.attlist-->]]>

<!ENTITY % callout.module "INCLUDE">  
<![callout.module;]>
<!ENTITY % local.callout.attrib "">  
<!ENTITY % callout.role.attrib "%role.attrib;">  

<!ENTITY % callout.element "INCLUDE">  
<![callout.element;]>  
<!ELEMENT callout %ho; ((%component.mix;)+)>  
<!end of callout.element-->]]>

<!-- AreaRefs: IDs of one or more Areas or AreaSets described by this Callout -->

<!ENTITY % callout.attlist "INCLUDE">  
<![callout.attlist;]>
<!ATTLIST callout
arearefsIDREFS#REQUIRED>
- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number
  at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline
to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending
  points of area in "linespecific" content that starts at
  first position and ends at second position (including the
  beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
</!-- OtherUnits: User-defined units -->

<!-- ENTITY % areaspec.attlist "INCLUDE"-->  
<!-- ![areaspec.attlist];  
<!ATTLIST areaspec
  units(calspair  
  |linecolumn
  |linerange  
  |linecolumnpair
  |other)#IMPLIED
  otherunitsNMTOKEN#IMPLIED
  %common.attrib;
  %area.spec.role.attrib;
  %local.areaspec.attrib;
  -->
  <!--end of areaspec.attlist-->]]>
</!--end of areaspec.module--]]>

<!-- ENTITY % area.module "INCLUDE"-->  
<!-- ![area.module];   
<!ENTITY % local.area.attrib "">>  
<!ENTITY % area.role.attrib "%role.attrib;">  

<!-- ENTITY % area.element "INCLUDE"-->  
<!-- ![area.element];  
<!--ELEMENT area %ho; EMPTY>>
</!--end of area.element--]]>
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![CDATA[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
> 
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![CDATA[
<!ENTITY % local.areaset attrib "">
<!ENTITY % areaset.role attrib "%role.attrib;">

<!ENTITY % areaset.element "INCLUDE">
<![CDATA[
<!ELEMENT areaset %ho; (area+)>
<!--end of areaset.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![CDATA[
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
> 
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default)

<!ATTLIST informalfigure float%yesorno.attvals;'0'
pgwide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%informalfigure.role.attrib;
%local.informalfigure.attrib;
>
</!--end of informalfigure.attlst-->]]>
</!--end of informalfigure.module-->]]>

<!ENTITY % graphicco.module "INCLUDE">
<![%graphicco.module;]
<!ENTITY % local.graphicco.attrib "">
<!ENTITY % graphicco.role.attrib "%role.attrib;">

<!ENTITY % graphicco.element "INCLUDE">
<![%graphicco.element;]
<!ELEMENT graphicco %ho; (areaspec, graphic, calloutlist*)>
</!--end of graphicco.element-->]]>

<!ENTITY % graphicco.attlist "INCLUDE">
<![%graphicco.attlist;]
<!ATTLIST graphicco
%common.attrib;
%graphicco.role.attrib;
%local.graphicco.attrib;
>
</!--end of graphicco.attlst-->]]>
</!-- AreaSpec (defined above in Examples)-->
</!-- CalloutList (defined above in Lists)-->
</!--end of graphicco.module-->]]>

<!-- Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref). -->

<!ENTITY % graphic.module "INCLUDE">
<![%graphic.module;]
<!ENTITY % local.graphic.attrib "">
<!ENTITY % graphic.role.attrib "%role.attrib;">

<!ENTITY % graphic.element "INCLUDE">
<![%graphic.element;]
<ENTITY % videodata.module "INCLUDE">
<![ %videodata.module; [ 
<![ %local.videodata.attrib ""
<![ %videodata.role.attrib "%role.attrib;">

<!ENTITY % videodata.element "INCLUDE">
<![ %videodata.element; [ 
<![ ELEMENT videodata %ho; EMPTY>
<![--end of videodata.element-->]]>

<!ENTITY % videodata.attlist "INCLUDE">
<![ %videodata.attlist; [ 

<!--Width: Same as CALS reprowid (desired width)-->
<!--Depth: Same as CALS reprodep (desired depth)-->
<!--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific-->
<!--Scale: Conflation of CALS hscale and vscale-->
<!--Scalefit: Same as CALS scalefit-->
<!ATTLIST videodata widthCDATA#IMPLIED
contentwidthCDATA#IMPLIED
depthCDATA#IMPLIED
contentdepthCDATA#IMPLIED
align(left
|right
|center)#IMPLIED
valign(top
|middle
|bottom)#IMPLIED
scaleCDATA#IMPLIED
scalefit%yesorno.attvals;
#IMPLIED
%objectdata.attrib;
%common.attrib;
%videodata.role.attrib;
%local.videodata.attrib;
> 
<![--end of videodata.attlist-->]]>
<![--end of videodata.module-->]]>
+-- Equations ........................ -->
+-- This PE provides a mechanism for replacing equation content, -->
+-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+|mediaobject+))">
<!ENTITY % inlineequation.content "(alt?, (graphic+|linemediaobject+))">

<!ENTITY % equation.module "INCLUDE">
<!%equation.module;[
<ENTITY % local.equation.attrib "">
<ENTITY % equation.role.attrib "%role.attrib;">

<!ENTITY % equation.element "INCLUDE">
<!%equation.element;[
<!ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?,
  (informalequation | %equation.content;))>
<!--end of equation.element-->
]

<!ENTITY % equation.attlist "INCLUDE">
<!%equation.attlist;[
<!ATTLIST equation
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
>  
<!--end of equation.attlist-->
]
<!--end of equation.module-->
]

<!ENTITY % informalequation.module "INCLUDE">
<!%informalequation.module;[
<ENTITY % local.informalequation.attrib "">
<ENTITY % informalequation.role.attrib "%role.attrib;">

<!ENTITY % informalequation.element "INCLUDE">
<!%informalequation.element;[
<!ELEMENT informalequation %ho; (blockinfo?, %equation.content;)>
<!--end of informalequation.element-->
]

<!ENTITY % informalequation.attlist "INCLUDE">
<!%informalequation.attlist;[
<!ATTLIST informalequation
%common.attrib;
%informalequation.role.attrib;
%local.informalequation.attrib;
>  
<!--end of informalequation.attlist-->
]
<!--end of informalequation.module-->
]
<!-- Choose a table model. CALS or OASIS XML Exchange -->

<!ENTITY % cals.table.module "INCLUDE">
<![%cals.table.module;]
<!ENTITY % exchange.table.module "IGNORE">
]]>
<!ENTITY % exchange.table.module "INCLUDE">

<!ENTITY % tables.role.attrib "%role.attrib;">

<![%cals.table.module;]
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "%label.attrib;">

<!ENTITY % secur "%common.attrib; %tables.role.attrib;">

<!ENTITY % common.table.attribs "%bodyatt; %secur;">

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*, textobject*, (graphic+|mediaobject+|tgroup+))">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;"> 

<!-- Reference CALS Table Model -->
<!ENTITY % tablemodel PUBLIC "-//OASIS//DTD DocBook CALS Table Model V4.2//EN" "calstblx.dtd"> ]]> 

<![%exchange.table.module;]
<!-- Add common attributes and the Label attribute to Table and -->
<!-- InformalTable. -->
<!ENTITY % bodyatt "%common.attrib; %label.attrib; %tables.role.attrib;"> 

<!ENTITY % common.table.attribs>
<!DOCTYPE HTML PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd">

%tablemodel;

<!-- Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry, Orient, PgWide -->
<!-- includes Label -->
<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist:;]
<!ATTLIST arg
choice(opt
|req
|plain)'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<!--end of arg.attlist--->]]>
<!--end of arg.module--->]]>

<!ENTITY % group.module "INCLUDE">
!<%group.module:;>

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">  

<!ENTITY % group.element "INCLUDE">
<![%group.element:;]
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref |
replaceable | sbr)+)>
<!--end of group.element--->]]>

<!-- Choice: Whether Arg must be supplied: Opt (optional to
supply, e.g. [arg]; the default), Req (required to supply,
e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without
ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist:;]
<!ATTLIST group
<!ENTITY % varargs.module "INCLUDE">
<![varargs.module;[
<!ENTITY % local.varargs.attrib ">
<!ENTITY % varargs.role.attrib "%role.attrib;"> 

<!ENTITY % varargs.element "INCLUDE">
<![varargs.element;[ 
<!ELEMENT varargs %ho; EMPTY>
<!end of varargs.element--]]>

<!ENTITY % varargs.attlist "INCLUDE">
<![varargs.attlist;[ 
<!ATTLIST varargs
%common.attrib;
%varargs.role.attrib;
%local.varargs.attrib;
>
<!end of varargs.attlist--]]>
<!end of varargs.module--]]>

<!-- Processing assumes that only one Parameter will appear in a 
ParamDef, and that FuncParams will be used at most once, for 
providing information on the "inner parameters" for parameters that 
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![paramdef.module;[
<!ENTITY % local.paramdef.attrib ">
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 

<!ENTITY % paramdef.element "INCLUDE">
<![paramdef.element;[ 
<!ELEMENT paramdef %ho; (#PCDATA 
| type 
| replaceable 
| parameter 
| funcparams)> 
<!end of paramdef.element--]]>

<!ENTITY % paramdef.attlist "INCLUDE">
<![paramdef.attlist;[
<!ATTLIST paramdef
%common.attrib;
%paramdef.role.attrib;
%local.paramdef.attrib;
>
<!end of paramdef.attlist--]]>
<!end of paramdef.module--]]>
<!ENTITY % methodparam.element "INCLUSIVE”>
<![%methodparam.element;[
<!ELEMENT methodparam %ho; (modifier*,
   type?,
   ((parameter,initializer?)|funcparams),
   modifier*)>
<!--end of methodparam.element-->]]>

<!ENTITY % methodparam.attlist "INCLUSIVE”>
<![%methodparam.attlist;[
<!ATTLIST methodparam
   choice(opt
   [req
   [plain]”req”
   rep(norepeat
   [repeat]”norepeat”
   %common.attrib;
   %methodparam.role.attrib;
   %local.methodparam.attrib;
   >
<!--end of methodparam.attlist-->]]>
<!--end of methodparam.module-->]]>
<!--end of classsynopsis.content.module-->]]>

<!-- .................................. -->
<!-- Document information entities and elements ...................... -->

<!-- The document information elements include some elements that are
   currently used only in the document hierarchy module. They are
   defined here so that they will be available for use in customized
   document hierarchies. -->

<!-- .................................. -->

<!ENTITY % docinfo.content.module "INCLUSIVE”>
<![%docinfo.content.module;[

<!-- Ackno ......................... -->

<!ENTITY % ackno.module "INCLUSIVE”>
<![%ackno.module;[
<!ENTITY % local.ackno.attrib "%”>
<!ENTITY % ackno.role.attrib "%role.attrib;”>

<!ENTITY % ackno.element "INCLUSIVE”>
<![%ackno.element;[
<!ELEMENT ackno %ho; (%docinfo.char.mix;)*>
<!-- Email (defined in the Inlines section, below)-->

<!ENTITY % otheraddr.module "INCLUDE">
<!ENTITY % otheraddr.module:[
<!ENTITY % local.otheraddr.attrib "">
<!ENTITY % otheraddr.role.attrib "%role.attrib;">

<!ENTITY % otheraddr.element "INCLUDE">
<!ENTITY % otheraddr.element:[
<!ELEMENT otheraddr %ho; (%docinfo.char.mix;)*>
<!ENTITY % otheraddr.attlist "INCLUDE">
<!ENTITY % otheraddr.attlist:[
<!ATTLIST otheraddr %common.attrib;
%otheraddr.role.attrib;
%local.otheraddr.attrib;
>
<!ENTITY % affiliation.content.module "INCLUDE">
<!ENTITY % affiliation.content.module:[
<!ENTITY % affiliation.module "INCLUDE">
<!ENTITY % affiliation.module:[
<!ENTITY % local.affiliation.attrib "">
<!ENTITY % affiliation.role.attrib "%role.attrib;">

<!ENTITY % affiliation.element "INCLUDE">
<!ENTITY % affiliation.element:[
<!ELEMENT affiliation %ho; (shortaffil?, jobtitle*, orgname?, orgdiv*, address*)>

<!ENTITY % affiliation.attlist "INCLUDE">
<!ENTITY % affiliation.attlist:[
<!ATTLIST affiliation
%common.attrib;
%affiliation.role.attrib;
%local.affiliation.attrib;
>
<!--end of affiliation.attlist-->]]>
<!--end of affiliation.module-->]]>

<!ENTITY % shortaffil.module "INCLUDE">
<![%shortaffil.module;]
<!ENTITY % local.shortaffil.attrib "">
<!ENTITY % shortaffil.role.attrib "%role.attrib;">

<!--end of shortaffil.element-->]]>
<!--end of shortaffil.module-->]]>

<!ENTITY % shortaffil.attlist "INCLUDE">
<![%shortaffil.attlist;]
<!ATTLIST shortaffil
%common.attrib;
%shortaffil.role.attrib;
%local.shortaffil.attrib;
>
<!--end of shortaffil.attlist-->]]>
<!--end of shortaffil.module-->]]>

<!ENTITY % jobtitle.module "INCLUDE">
<![%jobtitle.module;]
<!ENTITY % local.jobtitle.attrib "">
<!ENTITY % jobtitle.role.attrib "%role.attrib;">

<!--end of jobtitle.element-->]]>
<!--end of jobtitle.module-->]]>

<!ENTITY % jobtitle.attlist "INCLUDE">
<![%jobtitle.attlist;]
<!ATTLIST jobtitle
%common.attrib;
%jobtitle.role.attrib;
%local.jobtitle.attrib;
>
<!--end of jobtitle.attlist-->]]>
<!--end of jobtitle.module-->]]>

<!-- OrgName (defined elsewhere in this section)-->
<!ATTLIST confsponsor
%common.attrib;
%confsponsor.role.attrib;
%local.confsponsor.attrib;
>
<!-- end of confsponsor.attlist-->
<!-- end of confsponsor.module-->
<!-- end of confgroup.content.module-->

<!-- ContractNum ...................... -->

<!ENTITY % contractnum.module "INCLUDE">
<![%contractnum.module;]
<!ENTITY % local.contractnum.attrib "">
<!ENTITY % contractnum.role.attrib "%role.attrib;">

<!ENTITY % contractnum.element "INCLUDE">
<![%contractnum.element;]
<!ELEMENT contractnum %ho; (%docinfo.char.mix;)*>
<!-- end of contractnum.element-->

<!ENTITY % contractnum.attlist "INCLUDE">
<![%contractnum.attlist;]
<!ATTLIST contractnum
%common.attrib;
%contractnum.role.attrib;
%local.contractnum.attrib;
>
<!-- end of contractnum.attlist-->
<!-- end of contractnum.module-->

<!-- ContractSponsor .................. -->

<!ENTITY % contractsponsor.module "INCLUDE">
<![%contractsponsor.module;]
<!ENTITY % local.contractsponsor.attrib "">
<!ENTITY % contractsponsor.role.attrib "%role.attrib;">

<!ENTITY % contractsponsor.element "INCLUDE">
<![%contractsponsor.element;]
<!ELEMENT contractsponsor %ho; (%docinfo.char.mix;)*>
<!-- end of contractsponsor.element-->

<!ENTITY % contractsponsor.attlist "INCLUDE">
<![%contractsponsor.attlist;]
<!ATTLIST contractsponsor
%common.attrib;
%contractsponsor.role.attrib;
<!ENTITY % holder.module "INCLUDE">
<![%holder.module;]
<!ENTITY % local.holder.attrib "">
<!ENTITY % holder.role.attrib "%role.attrib;">

<!ENTITY % holder.element "INCLUDE">
<![%holder.element;]
<!ELEMENT holder %ho; (%docinfo.char.mix;)*> 
<![!---end of holder.element-->]]>

<!ENTITY % holder.attlist "INCLUDE">
<![%holder.attlist;]
<!ATTLIST holder
%common.attrib;
%holder.role.attrib;
%local.holder.attrib;
>
<![!---end of holder.attlist-->]]>
<![!---end of holder.module-->]]>
<![!---end of copyright.content.module-->]]>

<!-- CorpAuthor ....................... -->

<!ENTITY % corpauteur.module "INCLUDE">
<![%corpauteur.module;]
<!ENTITY % local.corpauteur.attrib "">
<!ENTITY % corpauteur.role.attrib "%role.attrib;">

<!ENTITY % corpauteur.element "INCLUDE">
<![%corpauteur.element;]
<!ELEMENT corpauteur %ho; (%docinfo.char.mix;)*> 
<![!---end of corpauteur.element-->]]>

<!ENTITY % corpauteur.attlist "INCLUDE">
<![%corpauteur.attlist;]
<!ATTLIST corpauteur
%common.attrib;
%corpauteur.role.attrib;
%local.corpauteur.attrib;
>
<![!---end of corpauteur.attlist-->]]>
<![!---end of corpauteur.module-->]]>

<!-- CorpName ......................... -->

<!ENTITY % corpname.module "INCLUDE">
<![%corpname.module;]
<!-- ProductNumber ................... -->

<!ENTITY % productnumber.module "INCLUDE">
<![%productnumber.module;]
<!ENTITY % local.productnumber.attr """>
<!ENTITY % productnumber.role.attr "%role.attr;">

<!ENTITY % productnumber.element "INCLUDE">
<![%productnumber.element;]
<!ELEMENT productnumber %ho; (%docinfo.char.mix;)*>
<!--end of productnumber.element-->
]
]]>
<!ENTITY % productnumber.attlist "INCLUDE">
<![%productnumber.attlist;]
<!ATTLIST productnumber
%common.attrib;
%productnumber.role.attrib;
%local.productnumber.attrib;
>
<![--end of productnumber.attlist-->]]>
<![--end of productnumber.module-->]]>

<!-- PubDate ......................... -->

<!ENTITY % pubdate.module "INCLUDE">
<![%pubdate.module;]
<!ENTITY % local.pubdate.attr """>
<!ENTITY % pubdate.role.attr "%role.attr;">

<!ENTITY % pubdate.element "INCLUDE">
<![%pubdate.element;]
<!ELEMENT pubdate %ho; (%docinfo.char.mix;)*>
<![--end of pubdate.element-->]]>

<!ENTITY % pubdate.attlist "INCLUDE">
<![%pubdate.attlist;]
<!ATTLIST pubdate
%common.attrib;
%pubdate.role.attrib;
%local.pubdate.attrib;
>
<![--end of pubdate.attlist-->]]>
<![--end of pubdate.module-->]]>

<!-- Publisher ....................... -->

<!ENTITY % publisher.content.module "INCLUDE">
<![%publisher.content.module;]
%local.errortype.attrib;
>
<!--end of errortype.attlist-->

<!ENTITY % filename.module "INCLUDE">
<![%filename.module;[
<!ENTITY % local.filename.attrib "">
<!ENTITY % filename.role.attrib "%role.attrib;">  

<!ENTITY % filename.element "INCLUDE">
<![%filename.element;[
<!ELEMENT filename %ho; (%cptr.char.mix;)*>
<!--end of filename.element-->
]

<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which file can be found -->

<!ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;[
<!ATTLIST filename  
    class(headerfile |partition |devicefile |libraryfile |directory |extension |symlink) #IMPLIED 
    pathCDATA#IMPLIED 
    %moreinfo.attrib; 
    %common.attrib; 
    %filename.role.attrib; 
    %local.filename.attrib; 
> 
<!--end of filename.attlist-->]]>

<!--end of filename.module-->
]

<!ENTITY % function.module "INCLUDE">
<![%function.module;[
<!ENTITY % local.function.attrib "">
<!ENTITY % function.role.attrib "%role.attrib;">  

<!ENTITY % function.element "INCLUDE">
<![%function.element;[
<!ELEMENT function %ho; (%cptr.char.mix;)*>
<!--end of function.element-->
]]>
<!ENTITY % function.attlist "INCLUDE">
<![function.attlist;]
<!ATTLIST function
%moreinfo.attrib;
%common.attrib;
%function.role.attrib;
%local.function.attrib;
>
<!--end of function.attlist-->
<!--end of function.module-->

<!ENTITY % guibutton.module "INCLUDE">
<![guibutton.module;]
<!ENTITY % local.guibutton.attrib "">
<!ENTITY % guibutton.role.attrib "%role.attrib;">

<!ENTITY % guibutton.element "INCLUDE">
<![guibutton.element;]
<!ELEMENT guibutton %ho; (%smallcptr.char.mix;|accel)*)&
<!--end of guibutton.element-->

<!ENTITY % guibutton.attlist "INCLUDE">
<![guibutton.attlist;]
<!ATTLIST guibutton
%moreinfo.attrib;
%common.attrib;
%guibutton.role.attrib;
%local.guibutton.attrib;
>
<!--end of guibutton.attlist-->
<!--end of guibutton.module-->

<!ENTITY % guiicon.module "INCLUDE">
<![guiicon.module;]
<!ENTITY % local.guiicon.attrib "">
<!ENTITY % guiicon.role.attrib "%role.attrib;">

<!ENTITY % guiicon.element "INCLUDE">
<![guiicon.element;]
<!ELEMENT guiicon %ho; (%smallcptr.char.mix;|accel)*)&
<!--end of guiicon.element-->

<!ENTITY % guiicon.attlist "INCLUDE">
<![guiicon.attlist;]
<!ATTLIST guiicon
%moreinfo.attrib;
%common.attrib;
<ENTITY % varname.attlist "INCLUDE">
<! [%varname.attlist; [
<!ATTLIST varname
%common.attrib;
%varname.role.attrib;
%local.varname.attrib;
> 
<!--end of varname.attlist-->]]>
<!--end of varname.module-->]]>

<!ENTITY % markup.module "INCLUDE">
<![ %markup.module;[
<!ENTITY % local.markup.attrib "">
<!ENTITY % markup.role.attrib "%role.attrib;"> 

<!ENTITY % markup.element "INCLUDE">
<![ %markup.element;[
<!ELEMENT markup %ho; (%smallcptr.char.mix;)*> 

<!ENTITY % markup.attlist "INCLUDE">
<![ %markup.attlist;[
<!ATTLIST markup
%common.attrib;
%markup.role.attrib;
%local.markup.attrib;
> 
<!--end of markup.attlist-->]]>
<!--end of markup.module-->]]>

<!ENTITY % medialabel.module "INCLUDE">
<![ %medialabel.module;[
<!ENTITY % local.medialabel.attrib "">
<!ENTITY % medialabel.role.attrib "%role.attrib;"> 

<!ENTITY % medialabel.element "INCLUDE">
<![ %medialabel.element;[
<!ELEMENT medialabel %ho; (%smallcptr.char.mix;)*> 
<!--end of medialabel.element-->]]>

<!-- Class: Type of medium named by the element; no default -->

<!ENTITY % medialabel.attlist "INCLUDE">
<![ %medialabel.attlist;[
<!ATTLIST medialabel
class (cartridge
cdrom
disk
tape)#IMPLIED
%common.attrib;
%medialabel.role.attrib;
%local.medialabel.attrib;
>
<!--end of medialabel.attlist-->]]>
<!--end of medialabel.module-->]]>

<!ENTITY % menuchoice.content.module "INCLUDE">
<![%menuchoice.content.module;]
<!ENTITY % menuchoice.module "INCLUDE">
<![%menuchoice.module;]
<!ENTITY % local.menuchoice.attrib "">
<!ENTITY % menuchoice.role.attrib "%role.attrib;">

<!ENTITY % menuchoice.element "INCLUDE">
<![%menuchoice.element;]
<!ELEMENT menuchoice %ho; (shortcut?, (guibutton|guiicon|guilabel
[guimenu|guimenuitem|guisubmenu|interface)+)>
<![%menuchoice.attlist;]

<!ATTLIST menuchoice
%moreinfo.attrib;
%common.attrib;
%menuchoice.role.attrib;
%local.menuchoice.attrib;
>
<![%menuchoice.attlist;]

<!ENTITY % shortcut.module "INCLUDE">
<![%shortcut.module;]
<!-- See also KeyCombo -->
<!ENTITY % local.shortcut.attrib "">
<!ENTITY % shortcut.role.attrib "%role.attrib;">

<!ENTITY % shortcut.element "INCLUDE">
<![%shortcut.element;]
<!ELEMENT shortcut %ho; ((keycap|keycombo|keysym|mousebutton)+)
<![%shortcut.attlist;]
<!-- Class: Type of SGML construct the element names; no default -->
<!ENTITY % structfield.module "INCLUDE">
<![%structfield.module;[
<!ENTITY % local.structfield.attrib "">
<!ENTITY % structfield.role.attrib "%role.attrib;">  
<!ENTITY % structfield.element "INCLUDE">
<![%structfield.element;[
<!ENTITY % structfield.attlist "INCLUDE">
<![%structfield.attlist;[
<!ATTLIST structfield
%common.attrib;
%structfield.role.attrib;
%local.structfield.attrib;
>  
<![--end of structfield.attlist-->]]>
<![--end of structfield.module-->]]>

<!ENTITY % structname.module "INCLUDE">
<![%structname.module;[
<!ENTITY % local.structname.attrib "">
<!ENTITY % structname.role.attrib "%role.attrib;">  
<!ENTITY % structname.element "INCLUDE">
<![%structname.element;[
<!ELEMENT structname %ho; (%smallcptr.char.mix;)*>
<![--end of structname.element-->]]>
<![--end of structname.module-->]]>

<!ENTITY % structname.attlist "INCLUDE">
<![%structname.attlist;[
<!ATTLIST structname
%common.attrib;
%structname.role.attrib;
%local.structname.attrib;
>  
<![--end of structname.attlist-->]]>
<![--end of structname.module-->]]>
<!ENTITY % symbol.module "INCLUDE">
<![%symbol.module:>
<!ENTITY % local.symbol.attrib "">
<!ENTITY % symbol.role.attrib "%role.attrib;">

<!ENTITY % symbol.element "INCLUDE">
<![%symbol.element:>
<!ELEMENT symbol %ho; (%smallcptr.char.mix;)*>
<!--end of symbol.element-->
]
>
<!-- Class: Type of symbol; no default -->

<!ENTITY % symbol.attlist "INCLUDE">
<![%symbol.attlist:>
<!ATTLIST symbol
class	no default
%common.attrib;
%symbol.role.attrib;
%local.symbol.attrib;
>
<!--end of symbol.attlist-->
]
>
<!--end of symbol.module-->
]
>
<!ENTITY % systemitem.module "INCLUDE">
<![%systemitem.module:>
<!ENTITY % local.systemitem.attrib "">
<!ENTITY % systemitem.role.attrib "%role.attrib;">

<!ENTITY % systemitem.element "INCLUDE">
<![%systemitem.element:>
<!ELEMENT systemitem %ho; (%cptr.char.mix; | acronym | co)*>
<!--end of systemitem.element-->
]
>
<!-- Class: Type of system item the element names; no default -->

<!ENTITY % systemitem.attlist "INCLUDE">
<![%systemitem.attlist:>
<!ATTLIST systemitem
class(constant
|event
|eventhandler
|domainname
|fqdomainname
|ipaddress

Open Source Used In OnPrem2.1 2.2 32653
<!ENTITY % manvolnum.attlist "INCLUDE">
<!ATTLIST manvolnum %common.attrib; %namvolnum.role.attrib; %local.manvolnum.attrib;>
<!--end of manvolnum.attlist-->
<!--end of manvolnum.element-->

<!ENTITY % citetitle.module "INCLUDE">
<!ENTITY % local.citetitle.attrib "">
<!ENTITY % citetitle.role.attrib "%role.attrib;">
<!ENTITY % citetitle.element "INCLUDE">
<!ELEMENT citetitle %ho; (%para.char.mix;)*>
<!--end of citetitle.element-->

<!-- Pubwork: Genre of published work cited; no default -->

<!ENTITY % citetitle.attlist "INCLUDE">
<!ATTLIST citetitle pubwork(article |book |chapter |part |refentry |section |journal |series |set |manuscript)#IMPLIED %common.attrib; %citetitle.role.attrib; %local.citetitle.attrib;>
<!--end of citetitle.attlist-->
<!--end of citetitle.module-->

<!ENTITY % emphasis.module "INCLUDE">
<!ENTITY % local.emphasis.attrib "">
<!ENTITY % emphasis.role.attrib "%role.attrib;">
<!-- Links and cross-references ........................................... -->

<!ENTITY % link.module "INCLUDE">
<![%link.module;]
<!ENTITY % local.link.attrib "">
<!ENTITY % link.role.attrib "%role.attrib;">
<!-- to footnote content supplied elsewhere -->

<!ENTITY % footnoteref.attlist "INCLUDE">
<![%footnoteref.attlist;[
<!ATTLIST footnoteref
%linkendreq.attrib;%label.attrib;
%common.attrib;
%footnoteref.role.attrib;
%local.footnoteref.attrib;
>  
<!--end of footnoteref.attlist-->]]>
<!--end of footnoteref.module-->]]>

<!ENTITY % xref.module "INCLUDE">
<![%xref.module;[
<!ENTITY % local.xref.attrib "">
<!ENTITY % xref.role.attrib "%role.attrib;">

<!ENTITY % xref.element "INCLUDE">
<![%xref.element;[
<!ELEMENT xref %ho; EMPTY>
<!--end of xref.element-->]]>

<!-- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element -->
<!-- to linked-to object -->

<!ENTITY % xref.attlist "INCLUDE">
<![%xref.attlist;[
<!ATTLIST xref
endtermIDREF#IMPLIED
%linkendreq.attrib;%common.attrib;
%xref.role.attrib;
%local.xref.attrib;
>  
<!--end of xref.attlist-->]]>
<!--end of xref.module-->]]>

<!-- Ubiquitous elements ............................................. -->

<!ENTITY % anchor.module "INCLUDE">
<![%anchor.module;[
<!ENTITY % local.anchor.attrib "">
<!ENTITY % anchor.role.attrib "%role.attrib;">
No license file was found, but licenses were detected in source scan.

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Please direct all questions, bug reports, or suggestions for changes to the davenport@berkshire.net mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as
man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V3.1//EN"> %dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->
<!-- Entities for module inclusions ....................................... -->

```xml
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">
```

<!-- ...................................................................... -->
<!-- Entities for element classes ......................................... -->

```xml
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "Appendix %local.appendix.class;"> 

<!ENTITY % local.article.class "">
<!ENTITY % article.class "Article %local.article.class;"> 

<!ENTITY % local.book.class "">
<!ENTITY % book.class "Book %local.book.class;"> 

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "Chapter %local.chapter.class;"> 

<!ENTITY % local.index.class "">
<!ENTITY % index.class "Index|SetIndex %local.index.class;"> 

<!-- SetInfo and BookInfo are not included in otherinfo.class because they have different attribute lists. -->
```

<!--FUTURE USE (V4.0): -->
The DocInfo element will be split out into ChapterInfo, AppendixInfo, etc.

-->

<!ENTITY % otherinfo.class "DocInfo|Sect1Info|Sect2Info|Sect3Info
|Sect4Info|Sect5Info|RefSect1Info
|RefSect2Info|RefSect3Info|RefSynopsisDivInfo
%local.otherinfo.class;">}

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "RefEntry %local.refentry.class;">}

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "ToC|LoT|Index|Glossary|Bibliography
%local.nav.class;">}

<!-- Redeclaration placeholder ............................................ -->

<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<!--end of dbhier.redecl.module-->

<!-- Entities for element mixtures ........................................ -->

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class;
%local.divcomponent.mix;">}

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|%ndxterm.class;
<!-- Redeclaration placeholder 2 .......................................... -->
<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<![ %dbhier.decl2.module; [
%rbhier2;
<!-- end of dbhier.decl2.module-->]]>
The %article.class; entity *may* be removed from the Book content model.
(Article may be made part of a new top-level document hierarchy.)

.........

-->
<!ATTLIST LoTentry
--
SrcCredit: Information about the source of the entry,
as for a list of illustrations
--
SrcCreditCDATA#IMPLIED
%pagenum.attrib;
%common.attrib;
%linkend.attrib; --to element that this entry represents--
%lotentry.role.attrib;
%local.lotentry.attrib;
>
<!--end of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ...................................................................... -->
<!ENTITY % appendix.module "INCLUDE">
<![ %appendix.module; [ 
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;"> 

<!ENTITY % appendix.element "INCLUDE">
<![ %appendix.element; [ 
<!ELEMENT Appendix - O (%bookcomponent.title.content;), ToCchap?, (%bookcomponent.content;)) %ubiq.inclusion;>
<![end of appendix.element--]]]>

<!ENTITY % appendix.attlist "INCLUDE">
<![ %appendix.attlist; [ 
<!ATTLIST Appendix
%label.attrib;
%status.attrib;
%common.attrib;
%appendix.role.attrib;
%local.appendix.attrib;
>
<![end of appendix.attlist-->]]>
<![end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![ %chapter.module; [ 
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;"> 

<!ENTITY % chapter.element "INCLUDE">
<!ELEMENT Chapter - O ((%bookcomponent.title.content;), ToCchap?, (%bookcomponent.content;), (Index | Glossary | Bibliography)*)
%ubiq.inclusion;>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![ %chapter.attlist; [
<!ATTLIST Chapter
%label.attrib;
%status.attrib;
%common.attrib;
%chapter.role.attrib;
%local.chapter.attrib;
>]
<!--end of chapter.attlist-->]]>
<!--end of chapter.module-->]]>

<!ENTITY % part.module "INCLUDE">
<![ %part.module; [
<!-- Note that Part was to have its content model reduced in V4.0. This change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![ %part.element; [
<!ELEMENT Part - - ((%bookcomponent.title.content;), PartIntro?, (%partcontent.mix;)+) %ubiq.inclusion;>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![ %part.attlist; [
<!ATTLIST Part
%label.attrib;
%status.attrib;
%common.attrib;
%part.role.attrib;
%local.part.attrib;
>]
<!--end of part.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">
<![ %preface.module; [
What did we decide about RenderAs?

Renderas(Sect1
|Sect2
|Sect3
|Sect4
|Sect5)#IMPLIED

%label.attrib;
%status.attrib;
%common.attrib;
%section.role.attrib;
%local.section.attrib;
>
<![-end of section.attlist-->]]>
<![-end of section.module-->]]>

<![%sectioninfo.module "INCLUDE">%
<![%sectioninfo.module; [%
<![ENTITY % sectioninfo.role.attrib "%role.attrib;">%
<![ENTITY % local.sectioninfo.attrib "">

<![ENTITY % sectioninfo.element "INCLUDE">%
<![%sectioninfo.element; [%
<!ELEMENT SectionInfo - - ((Graphic | MediaObject | LegalNotice | ModeSpec
| SubjectSet | KeywordSet | ITermSet | %bibliocomponent.mix;)+)
-(BeginPage)>
The DocInfo element will be split out into ChapterInfo, AppendixInfo, etc.

The DocInfo element will be split out into ChapterInfo, AppendixInfo, etc.
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

FUTURE USE (V4.0):

The %nav.class; entity now allows ToC; ToCchap will be allowed instead. RefEntry will be removed from the main content of Article.
The ArtHeader element will be renamed to ArticleInfo.

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<!ENTITY % article.attlist "INCLUDE">

<!-- FUTURE USE (V4.0):

The ArtHeader element will be renamed to ArticleInfo.

-->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<T>......</T>

<!--FUTURE USE (V4.0):

The ArtHeader element will be renamed to ArticleInfo.

-->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<!ENTITY % article.attlist "INCLUDE">

<!-- Class: Indicates the type of a particular article;
all articles have the same structure and general purpose.
No default.
-->

Class(JournalArticle
  | ProductSheet
  | WhitePaper
  | TechReport
  | FAQ)#IMPLIED

-->

ParentBook: ID of the enclosing Book
-->

ParentBookIDREF#IMPLIED

%status.attrib;
%common.attrib;
%article.role.attrib;
%local.article.attrib;

<!-- End of article.attlist-->

<!-- End of article.element-->

<!-- End of DocBook document hierarchy module V3.1 .................. -->
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$Id: docbook.dtd,v 1.22 2004/03/31 10:58:14 nwalsh Exp $

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$Id: dbpoolx.mod,v 1.107 2005/01/27 13:52:00 nwalsh Exp $

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<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

o It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ENTITY % dbpool PUBLIC "-//OASIS//ELEMENTS DocBook XML Information Pool V4.4//EN" "dbpoolx.mod">
%dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->
<!-- Forms entities ....................................................... -->
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">

<!-- General-purpose semantics entities ............................ -->
<!ENTITY % yesorno.attvals"CDATA">

<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for element classes and mixtures ............................ -->
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class "indexterm %local.ndxterm.class;">

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class "calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist
|simplelist|variablelist %local.list.class;">

<!ENTITY % local.admon.class "">
<!ENTITY % admon.class "caution|important|note|tip|warning %local.admon.class;">

<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class "literallayout|programlisting|programlistingco|screen
|screenco|screenshot %local.linespecific.class;">

<!ENTITY % local.method.synop.class "">
<!ENTITY % method.synop.class "constructorsynopsis
|destructorsynopsis |methodsynopsis %local.method.synop.class;">
<!-- Entities for content models ........................................ -->
ENTITY % formalobject.title.content "title, titleabbrev?";

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbpool.redecl.module;[
<!-- Defining rdbpool here makes some buggy XML parsers happy. -->
ENTITY % rdbpool "";
%rdbpool;
<!end of dbpool.redecl.module-->]]>

<!-- Object-level mixtures ........................................ -->

<!--
    list admn line synp para infm form cmpd gen  desc
Component mixture   X   X   X   X   X   X   X   X   X
Sidebar mixture     X   X   X   X   X   X   X   a   X
Footnote mixture    X   X   X   X   X
Example mixture     X   X   X   X   X
Highlights mixture  X   X   X   X   X
Paragraph mixture   X   X   X   X
Admonition mixture  X   X   X   X   X   X   b   c
Figure mixture      X   X   X   X
Table entry mixture X   X   X   X   d
Glossary def mixture X   X   X   X   X   e
Legal notice mixture X   X   X   X   f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.
-->
a. Just InlineGraphic; noInlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|link.char.class;|tech.char.class;
|base.char.class;|docinfo.char.class;
|other.char.class;|inlineobj.char.class;
|synop.class;
|ndxterm.class; |beginpage
  %forminlines.hook;
%local.para.char.mix;"> 

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|link.char.class;|tech.char.class;
|base.char.class;|docinfo.char.class;
|other.char.class;|inlineobj.char.class;
|ndxterm.class;
%local.title.char.mix;"> 

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix
"#PCDATA
|%xref.char.class;|%gen.char.class;
|link.char.class;|tech.char.class;
|base.char.class;|docinfo.char.class;
|other.char.class;|inlinegraphic|inlinemediaobject
%local.ndxterm.char.mix;"> 

<!ENTITY % local.cptr.char.mix "">
<!ENTITY % cptr.char.mix
"#PCDATA
|link.char.class;|tech.char.class;
|base.char.class;
|other.char.class;|inlinegraphic|inlinemediaobject
|ndxterm.class; |beginpage
%local.cptr.char.mix;"> 

<!ENTITY % local.smallecptr.char.mix "">
<!ENTITY % smallecptr.char.mix
"#PCDATA
|replaceable
|inlinegraphic|inlinemediaobject
<!-- Entities for attributes and attribute components ..................... -->

<!-- Effectivity attributes ............................................... -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!-- Condition: General-purpose effectivity attribute -->

<!-- Conformance: Standards conformance characteristics -->

<!-- Bibliocomponent.mix (see Bibliographic section, below) -->

<!-- Person.ident.mix (see Bibliographic section, below) -->
> <!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED">  

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">  

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">  

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED">  

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED">  

<!-- Wordsize: Computer word size (32 bit, 64 bit, etc.); no default -->

<!ENTITY % wordsize.attrib
"wordsizeCDATA#IMPLIED">  

<!ENTITY % local.effectivity.attrib """>  

<!ENTITY % effectivity.attrib
"%arch.attrib;
    %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
    %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%wordsize.attrib;
%local.effectivity.attrib;" >  

<!-- Common attributes .................................................... -->
<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib
"idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib
"langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib
"remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib
"roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xrelabel.attrib
"xrelabelCDATA#IMPLIED">

<!-- RevisionFlag: Revision status of element; default is that element wasn't revised -->

<!ENTITY % revisionflag.attrib
"revisionflag(changed
|added
|deleted
<!-- Semi-common attributes and other attribute entities .................. -->

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!ENTITY % keyaction.attrib " >
action (click | double-click | press | seq | simul | other) #IMPLIED
otheraction CDATA #IMPLIED
%local.keyaction.attrib;" >

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "label CDATA #IMPLIED">

<!-- xml:space: whitespace treatment -->

<![%sgml.features; | [<!ENTITY % xml-space.attrib "" ] ]>
<!ENTITY xml-space.attrib "xml:space (preserve) #IMPLIED">

<!-- Format: whether element is assumed to contain significant white space -->

<!ENTITY % linespecific.attrib "format NOTATION (linespecific)'linespecific' %xml-space.attrib;
inenumbering(numbered|unnumbered) #IMPLIED
continuation(continues|restarts) #IMPLIED
startinglinenumber CDATA #IMPLIED
language CDATA #IMPLIED">

<!-- Linkend: link to related information; no default -->

<!ENTITY % linkend.attrib "linkend IDREF #IMPLIED">

<!-- Linkend: required link to related information -->

<!ENTITY % linkendreq.attrib "linkend IDREF #REQUIRED">
<!ENTITY % subtitle.attlist "INCLUDE">
<!ATTLIST subtitle
%common.attrib;
%subtitle.role.attrib;
%local.subtitle.attrib;
>
<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation
[authorblurb|contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
"abbrev|abstract|address|artpagenums|author
[authorgroup|authorinitials|bibliomisc|biblioset
|collab|confgroup|contractnum|contractsperson
|copyright|corpauthor|corpcredit|date|edition
|editor|invpartnumber|isbn|issn|issuenum|orgname
|biblioid|citebiblioid|bibliosource|bibliorelation|bibliocoverage
|othercredit|pagenums|printhistory|productname
|productnumber|pubdate|publisher|publishernname
|pubsnumber|releaseinfo|revhistory|seriesvolnums
|subtitle|titleabbrev|volumenum|citetitle
|personname|%person.ident.mix;
|%ndxterm.class;
%local.bibliocomponent.mix;">

<!ENTITY % local.info.class "">
<!ENTITY % info.class
"graphic | mediaobject | legalnotice | modespec
| subjectset | keywordset | itermset | %bibliocomponent.mix;
%local.info.class;">
<!-- BiblioList ......................... -->

<!ENTITY % bibliolist.module "INCLUDE">
<![%bibliolist.module;]
<!ENTITY % local.bibliolist.attrib "">
<!ENTITY % bibliolist.role.attrib "%role.attrib;">

<!ENTITY % bibliolist.element "INCLUDE">
<![%bibliolist.element;]
<!ELEMENT bibliolist %ho; (blockinfo?, (%formalobject.title.content;)?,
(biblioentry|bibliomixed)+)
<!--end of bibliolist.element-->
]

<!ENTITY % bibliolist.attlist "INCLUDE">
<![%bibliolist.attlist;]
<!ATTLIST bibliolist
%common.attrib;
%bibliolist.role.attrib;
%local.bibliolist.attrib;
>
<!--end of bibliolist.attlist-->
]

<!ENTITY % biblioentry.module "INCLUDE">
<![%biblioentry.module;]
<!ENTITY % local.biblioentry.attrib "">
<!ENTITY % biblioentry.role.attrib "%role.attrib;">

<!ENTITY % biblioentry.element "INCLUDE">
<![%biblioentry.element;]
<!ELEMENT biblioentry %ho; ((articleinfo | (%bibliocomponent.mix;))+
%ubiq.exclusion;>
<!--end of biblioentry.element-->
]

<!ENTITY % biblioentry.attlist "INCLUDE">
<![%biblioentry.attlist;]
<!ATTLIST biblioentry
%common.attrib;
%biblioentry.role.attrib;
%local.biblioentry.attrib;
>
<!--end of biblioentry.attlist-->
]

<!ENTITY % bibliomixed.module "INCLUDE">
<![%bibliomixed.module;]
Open Source Used In OnPrem2.1 2.2 32737
<!ENTITY % local.qandadiv.attrib "">
<!ENTITY % qandadiv.role.attrib "%role.attrib;">
<!ENTITY % qandadiv.element "INCLUDE">
<!ENTITY % qandadiv.module "INCLUDE">
<!ENTITY % local.qandaentry.attrib "">
<!ENTITY % qandaentry.role.attrib "%role.attrib;">
<!ENTITY % qandaentry.element "INCLUDE">
<!ENTITY % qandaentry.module "INCLUDE">

<!--end of qandadiv.element-->
<!--end of qandadiv.module-->

<!--end of qandaentry.element-->
<!--end of qandaentry.module-->

<!--end of qandaset.element-->
<!--end of qandaset.module-->

<!--end of qandaentry.module-->
<!--end of qandaentry.element-->

<!--end of qandadiv.element-->
<!--end of qandadiv.module-->

<!--end of qandaset.element-->
<!--end of qandaset.module-->

<!ENTITY % qandaset.module; [ 
<!ENTITY % local.qandaset.attrib "">
<!ENTITY % qandaset.role.attrib "%role.attrib;">
<!ENTITY % qandaset.element "INCLUDE">
<!ENTITY % qandaset.attlist "INCLUDE">
<!ENTITY % qandadiv.module "INCLUDE">
<!ENTITY % local.qandadiv.attrib "">
<!ENTITY % qandadiv.role.attrib "%role.attrib;">
<!ENTITY % qandadiv.element "INCLUDE">
<!ENTITY % qandadiv.attlist "INCLUDE">
<!ENTITY % qandaentry.module "INCLUDE">
<!ENTITY % local.qandaentry.attrib "">
<!ENTITY % qandaentry.role.attrib "%role.attrib;">
<!ENTITY % qandaentry.element "INCLUDE">
<![ENTITY % bridgehead.element "INCLUDE"> 
<![%bridgehead.element:[ 
<ELEMENT bridgehead %ho; (%title.char.mix;)*> 
<!--end of bridgehead.element-->]]>

<!-- Renders: Indicates the format in which the BridgeHead should appear -->

<!ENTITY % bridgehead.attlist "INCLUDE"> 
<![%bridgehead.attlist:[ 
<!ATTLIST bridgehead renderas (other | sect1 | sect2 | sect3 | sect4 | sect5) #IMPLIED 
%common.attrib; 
%bridgehead.role.attrib; 
%local.bridgehead.attrib; > 
<!--end of bridgehead.attlist-->]]>

<!ENTITY % remark.module "INCLUDE"> 
<![%remark.module:[ 
<!ENTITY % local.remark.attrib ""> 
<!ENTITY % remark.role.attrib "%role.attrib;"> 

<!ENTITY % remark.element "INCLUDE"> 
<![%remark.element:[ 
<!ELEMENT remark %ho; (%para.char.mix;)* 
%remark.exclusion;> 
<!--end of remark.element-->]]>

<!ENTITY % remark.attlist "INCLUDE"> 
<![%remark.attlist:[ 
<!ATTLIST remark %common.attrib; 
%remark.role.attrib; 
%local.remark.attrib; > 
<!--end of remark.attlist-->]]>

<!ENTITY % epigraph.module "INCLUDE"> 
<![%epigraph.module:[
<!--end of glossentry.content.module-->

<!-- ItemizedList and OrderedList ..... -->
<!ENTITY % itemizedlist.module "INCLUDE">
<![[%itemizedlist.module;[
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<!ENTITY % itemizedlist.element "INCLUDE">
<![[%itemizedlist.element;[
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
   (%listpreamble.mix;)*, listitem+)>]

<![!--- Spacing: Whether the vertical space in the list should be compressed -->
<!!--- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![[%itemizedlist.attlist;[
<!ATTLIST itemizedlist
   spacing normal | compact #IMPLIED
   %mark.attrib;
   %common.attrib;
   %itemizedlist.role.attrib;
   %local.itemizedlist.attrib;
   >
]]>}

<![!---end of itemizedlist.attlist-->]
<![!---end of itemizedlist.module-->]]>

<!ENTITY % orderedlist.module "INCLUDE">
<![[%orderedlist.module;[
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<![[%orderedlist.element;[
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
   (%listpreamble.mix;)*, listitem+)>]

<![!---end of orderedlist.element-->]]>
<![!--- Numeration: Style of ListItem numbered; default is expected -->

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to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;[
<!ATTLIST orderedlist
numeration(arabic
|upperalpha
|loweralpha
|upperroman
|lowerroman)#IMPLIED
inheritnum(inherit
|ignore)"ignore"
continuation(continues
|restarts)"restarts"
spacing(normal
|compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>]
<!--end of orderedlist.attlist-->
]
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]
<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;]
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline | vert | horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module;]
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">
<!ENTITY % programlistingco.element "INCLUDE">  
<![%programlistingco.element;]  
<!ELEMENT programlistingco %ho; (areaspec, programlisting, calloutlist*)>  
<!!--end of programlistingco.element-->]]>

<!ENTITY % programlistingco.attlist "INCLUDE">  
<![%programlistingco.attlist;]  
<!ATTLIST programlistingco %common.attrib;  
%programlistingco.role.attrib;  
%local.programlistingco.attrib;  
>  
<!!--end of programlistingco.attlist-->]]>

<!ENTITY % areaspec.content.module "INCLUDE">  
<![%areaspec.content.module;]  
<!ENTITY % areaspec.module "INCLUDE">  
<![%areaspec.module;]  
<!ENTITY % local.areaspec.attrib ">"  
<!ENTITY % areaspec.role.attrib "%role.attrib;">  

<!ENTITY % areaspec.element "INCLUDE">  
<![%areaspec.element;]  
<!ELEMENT areaspec %ho; ((area|areaset)+)>  
<!!--end of areaspec.element-->]]>

<!-- Units: global unit of measure in which coordinates in this spec are expressed:  
- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)  
- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content  
- LineRange "startline endline": whole lines from startline to endline in "linespecific" content  
- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)
- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist:]
<!ATTLIST areaspec
units(calspair
|linetable
|linetablepair
|other)#IMPLIED
otherunit NMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![%area.module:]
<!ENTITY % local.area.attrib """>
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist:]
<!ELEMENT area %ho; EMPTY>
<!--end of area.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist:]
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
Float: Whether the Figure is supposed to be rendered where convenient (yes (1) value) or at the place it occurs in the text (no (0) value, the default) ->

<!ATTLIST informalfigure
float%yesorno.attvals;'0'
floatstyleCDATA#IMPLIED
pgwide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%figure.role.attrib;
%local.informalfigure.attrib;
>
<!--end of informalfigure.attriblist-->
<!--end of informalfigure.module-->

<!ENTITY % informalfigure.element "INCLUDE">
<!ELEMENT informalfigure %ho; (blockinfo?, (%figure.mix; | %link.char.class;)+)
<!--end of informalfigure.element-->

<!ENTITY % informalfigure.attlist "INCLUDE">
<!ATTLIST informalfigure
float%yesorno.attvals;'0'
floatstyleCDATA#IMPLIED
pgwide %yesorno.attvals; #IMPLIED
%label.attrib;
%common.attrib;
%figure.role.attrib;
%local.informalfigure.attrib;
>
<ENTITY % graphicco.module "INCLUDE">
<![%graphicco.module;]
<!ENTITY % local.graphicco.attrib ">
<!ENTITY % graphicco.role.attrib "%role.attrib;">

<!ENTITY % graphicco.element "INCLUDE">
<![%graphicco.element;]
<!ELEMENT graphicco %ho; (areaspec, graphic, calloutlist*)>
<!!--end of graphicco.element-->

<!ENTITY % graphicco.attlist "INCLUDE">
<![%graphicco.attlist;]
<!ATTLIST graphicco %common.attrib;
%graphicco.role.attrib;
%local.graphicco.attrib;
>
<!!--end of graphicco.attlist-->

<!!-- AreaSpec (defined above in Examples)-->
<!!-- CalloutList (defined above in Lists)-->
<!!--end of graphicco.module-->

<!!-- Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref). -->

<!ENTITY % graphic.module "INCLUDE">
<![%graphic.module;]
<!ENTITY % local.graphic.attrib ">
<!ENTITY % graphic.role.attrib "%role.attrib;">

<!ENTITY % graphic.element "INCLUDE">
<![%graphic.element;]
<!ELEMENT graphic %ho; EMPTY>
<!!--end of graphic.element-->

<!ENTITY % graphic.attlist "INCLUDE">
<![%graphic.attlist;]
<!ATTLIST graphic %graphics.attrib;
%common.attrib;
%graphic.role.attrib;
%local.graphic.attrib;
>
<!ENTITY % inlinemediaobject.module "INCLUDE">
<![ %inlinemediaobject.module; [ 
<!ENTITY % local.inlinemediaobject.attrib "">
<!ENTITY % inlinemediaobject.role.attrib "%role.attrib;">

<!ENTITY % inlinemediaobject.element "INCLUDE">
<![ %inlinemediaobject.element; [ 
<!ELEMENT inlinemediaobject %ho; (objectinfo?, (%mediaobject.mix;)+)>
</!!--end of inlinemediaobject.element-->]]>
<!!--end of inlinemediaobject.module-->]]>

<!ENTITY % videoobject.module "INCLUDE">
<![ %videoobject.module; [ 
<!ENTITY % local.videoobject.attrib "">
<!ENTITY % videoobject.role.attrib "%role.attrib;">

<!ENTITY % videoobject.element "INCLUDE">
<![ %videoobject.element; [ 
<!ELEMENT videoobject %ho; (objectinfo?, videodata)>
</!!--end of videoobject.element-->]]>

<!ENTITY % videoobject.attlist "INCLUDE">
<![ %videoobject.attlist; [ 
<!ATTLIST videoobject %common.attrib; %videoobject.role.attrib; %local.videoobject.attrib; ]
</!!--end of videoobject.attlist-->]]>
<!!--end of videoobject.module-->]]>

<!ENTITY % audioobject.module "INCLUDE">
<![ %audioobject.module; [ 
<!ENTITY % local.audioobject.attrib "">
<!ENTITY % audioobject.role.attrib "%role.attrib;">

<!ENTITY % audioobject.element "INCLUDE">

<!ENTITY % videodata.element "INCLUDE">
<![ %videodata.element; [ 
<!ELEMENT videodata %ho; EMPTY>
<!--end of videodata.element--->]]>

<!ENTITY % videodata.attlist "INCLUDE">
<![ %videodata.attlist; [ 

<!--Width: Same as CALS reprowid (desired width)-->
<!--Depth: Same as CALS reprodep (desired depth)-->
<!--Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific-->
<!--Scale: Conflation of CALS hscale and vscale-->
<!--Scalefit: Same as CALS scalefit-->
<!ATTLIST videodata 
widthCDATA#IMPLIED 
contentwidthCDATA#IMPLIED 
depthCDATA#IMPLIED 
contentdepthCDATA#IMPLIED 
align(left |right |center)#IMPLIED 
valign(top |middle |bottom)#IMPLIED 
scaleCDATA#IMPLIED 
scalefit%yesorno.attvals; 
#IMPLIED 
%objectdata.attrib; 
%common.attrib; 
%videodata.role.attrib; 
%local.videodata.attrib; 
> 
<!--end of videodata.attlist--->]]>
<!--end of videodata.module--->]]>

<!ENTITY % audiodata.module "INCLUDE">
<![ %audiodata.module; [ 
<!ENTITY % local.audiodata.attrib "">
<!ENTITY % audiodata.role.attrib "%role.attrib;" >

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; [ 
<!ELEMENT audiodata %ho; EMPTY>
<!--end of audiodata.element--->]]>

<!ENTITY % audiodata.attlist "INCLUDE">
<ENTITY % local.imageobjectco.attrib "">
<ENTITY % imageobjectco.role.attrib "%role.attrib;">

<ENTITY % imageobjectco.element "INCLUDE">
<![ %imageobjectco.element; [
<ELEMENT imageobjectco %ho; (areaspec, imageobject, calloutlist*)>
<![!---end of imageobjectco.element-->]]>

<ENTITY % imageobjectco.attlist "INCLUDE">
<![ %imageobjectco.attlist; [ 
<!ATTLIST imageobjectco
%common.attrib;
%imageobjectco.role.attrib;
%local.imageobjectco.attrib;
> 
<![!---end of imageobjectco.attlist-->]]>
<![!---end of imageobjectco.module-->]]>
<![!---end of mediaobject.content.module-->]]>

<!-- Equations ......................... -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<ENTITY % equation.content "(alt?, (graphic+[mediaobject]+))">
<ENTITY % inlinenequation.content "(alt?, (graphic+[inlinemediaobject]+))">

<ENTITY % equation.module "INCLUDE">
<![ %equation.module; ]
<ENTITY % local.equation.attrib "">
<ENTITY % equation.role.attrib "%role.attrib;">

<ENTITY % equation.element "INCLUDE">
<![ %equation.element; [ 
<ELEMENT equation %ho; (blockinfo?, (%formalobject.title.content;)?,
   (informalequation | %equation.content;))>
<![!---end of equation.element-->]]>

<ENTITY % equation.attlist "INCLUDE">
<![ %equation.attlist; [ 
<!ATTLIST equation
floatstyle CDATA #IMPLIED
%label.attrib;
%common.attrib;
%equation.role.attrib;
%local.equation.attrib;
> 
<![!---end of equation.attlist-->]]>
<![!---end of equation.module-->]]>
<!ENTITY % tbl.row.att "%common.attrib;">  
<!ENTITY % tbl.entry.att "%common.attrib;">  

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl
"(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*,
textobject*,
(graphic+|mediaobject+|tgroup+))">  

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*">  

<!-- Reference OASIS Exchange Table Model -->
<!ENTITY % tablemodel
PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">  
]]>  
%tablemodel;

<!--end of table.module-->]]>

<!ENTITY % informaltable.module "INCLUDE">  
<![%informaltable.module:]

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib """>  

<!-- the following entity may have been declared by the XHTML table module -->
<!ENTITY % informal.tbl.table.mdl "textobject*, (graphic+|mediaobject+|group+)">  

<!--include TabStyle, ToCentry, ShortEntry, Orient, PgWide -->
<!ENTITY % informaltable.element "INCLUDE">  
<![%informaltable.element:]
<!ELEMENT informaltable %ho; (blockinfo?, (%informal.tbl.table.mdl;))>
<![--end of informaltable.element-->]]>

<!-- Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module. -->
<!-- includes Label -->
<!-- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE">  
<![%informaltable.attlist:]
<!ATTLIST informaltable

frame(%tbl.frame.attval;)#IMPLIED
colsep=yesorno.attvals;#IMPLIED
rowsep=yesorno.attvals;#IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
>
<![--end of informaltable.attlist--]]>
<![--end of informaltable.module-->]]>

<!ENTITY % caption.module "INCLUDE">
<![ %caption.module; [ 
<![ %ENTITY % local.caption.attrib "">
<![ ENTITY % caption.role.attrib "%role.attrib;">

<![ ENTITY % caption.module "INCLUDE">
<![ %caption.module; [ 
<![ ELEMENT caption %ho; (#PCDATA | %textobject.mix;)*> 
<![--end of caption.element-->]]>

<![ ENTITY % caption.attlist "INCLUDE">
<![ %caption.attlist; [ 
<![-- attrs comes from HTML tables ... -->

<![ %allow.html.tables; [ 
<![-- common.attrib, but without ID because ID is in attrs -->
<![ ENTITY % caption.attrib, but without ID because ID is in attrs -->

%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dir.attrib;
%xml-base.attrib;
%local.common.attrib;
%caption.role.attrib;
%attrs;
align(top|bottom|left|right)#IMPLIED
%local.caption.attrib;
">
]]>
<![ ENTITY % caption.attlist.content 
%common.attrib;
%caption.role.attrib;
%local.caption.attrib;
">

<![ ATTLIST caption %caption(attlist.content);>
Synopsis ............................. -->

<!ENTITY % synopsismodule "INCLUDE">
<![%synopsismodule;]
<!ENTITY % localsynopsisattrib "">
<!ENTITY % synopsissynopsisattrib "%role.attrib;">

<!ENTITY % synopsisselement "INCLUDE">
<![%synopsisselement;]
<!ELEMENT synopsis %ho; (%para.char.mix;|graphic|mediaobject|co|coref|textobject|lineannotation)*>
<!--end of synopsisselement-->

<!ENTITY % synopsissynopsisattlist "INCLUDE">
<![%synopsissynopsisattlist;]
<!ATTLIST synopsis
%label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsissynopsisattrib;
%local.synopsissynopsisattrib;
>  
<!--end of synopsissynopsisattlist-->]

<!-- LineAnnotation (defined in the Inlines section, below)-->  
<!--end of synopsismodule-->

<!-- CmdSynopsis ...................... -->

<!ENTITY % cmdsynopsiscontentmodule "INCLUDE">
<![%cmdsynopsiscontentmodule;]
<!ENTITY % cmdsynopsismodule "INCLUDE">
<![%cmdsynopsismodule;]
<!ENTITY % local.cmdsynopsisattrib "">
<!ENTITY % cmdsynopsisroleattrib "%role.attrib;">  

<!ENTITY % cmdsynopsisselement "INCLUDE">
<![%cmdsynopsisselement;]
<!ELEMENT cmdsynopsis %ho; ((command | arg | group | sbr)+, synopfragment*)>
<!--end of cmdsynopsisselement-->]

<!-- Sepchar: Character that should separate command and all
top-level arguments; alternate value might be e.g., &Delta; -->

<!ENTITY % cmdsynopsis.attlist "INCLUDE">
<![%cmdsynopsis.attlist;[ 
<!ATTLIST cmdsynopsis
%label.attrib;
sepcharCDATA " 
cmdlengthCDATA#IMPLIED 
%common.attrib;
%cmdsynopsis.role.attrib;
%local.cmdsynopsis.attrib;
>
<![--end of cmdsynopsis.attlist-->]]>
<![--end of cmdsynopsis.module-->]]>

<!ENTITY % arg.module "INCLUDE">
<![%arg.module;[
<!ENTITY % local.arg.attrib "">
<!ENTITY % arg.role.attrib "%role.attrib;">

<!ENTITY % arg.element "INCLUDE">
<![%arg.element;[
<!ELEMENT arg %ho; (#PCDATA
| arg
| group
| option
| synopfragmentref
| replaceable
| sbr)*>
<![--end of arg.element-->]]>

<!-- Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist;[ 
<!ATTLIST arg choice(opt
| req
| plain)/opt'
rep(norepeat
| repeat)'norepeat'
%common.attrib;
<!-- to SynopFragment of complex synopsis material for separate referencing -->
<!- Command (defined in the Inlines section, below) -->
<!- Option (defined in the Inlines section, below) -->
<!- Replaceable (defined in the Inlines section, below) -->
<!- end of cmdsynopsis.content.module-->

<!-- FuncSynopsis ..................... -->

<!ENTITY % funcsynopsis.content.module "INCLUDE">
<![%funcsynopsis.content.module;]
<!ENTITY % funcsynopsis.module "INCLUDE">
<![%funcsynopsis.module;]

<!ENTITY % local.funcsynopsis.attrib "">
<!ENTITY % funcsynopsis.role.attrib "%role.attrib;">
Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. --

<!ENTITY % paramdef.module "INCLUDE">
<![<!--end of paramdef.module-->]]>
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;">  
<!ENTITY % paramdef.attlist "INCLUDE">
<![<!--end of paramdef.attlist-->]]>
<!ELEMENT paramdef %ho; (#PCDATA    | type    | replaceable    | parameter    | funcparams)*>  
<![<!--end of paramdef.element-->]]>
<!ENTITY % funcparams.module "INCLUDE">
<![<!--end of funcparams.module-->]]>
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">  
<!ENTITY % funcparams.element "INCLUDE">
<![<!--end of funcparams.element-->]]>
<!ENTITY % methodparam.attlist [
<!ATTLIST methodparam
choice(opt
:req
:plain)"req"
rep(norepeat
|repeat)"norepeat"
%common.attrib;
%methodparam.role.attrib;
%local.methodparam.attrib;
>
<!-- end of methodparam.attlist--]]>
<!-- end of methodparam.module--]]>
<!-- end of classsynopsis.content.module--]]>
<!-- ...................................................................... -->
<!-- Document information entities and elements ........................... -->
<!ENTITY % docinfo.content.module "INCLUDE">
<!ENTITY % docinfo.content.module;[
<!-- Ackno ......................... -->
<!ENTITY % ackno.module "INCLUDE">
<!ENTITY % ackno.module;[
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">  
<!ENTITY % ackno.element "INCLUDE">
<!ENTITY % ackno.element;[
<!ELEMENT ackno %ho; (%docinfo.char.mix;)*>
<!-- end of ackno.element--]]>
<!ENTITY % ackno.attlist "INCLUDE">
<!ENTITY % ackno.attlist;[
<!ATTLIST ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<!-- end of ackno.attlist--]]>
<!ENTITY % otheraddr.attrib "">

<!ENTITY % otheraddr.role.attrib "role.attrib;">

<!ENTITY % otheraddr.element "INCLUDE">
<!ENTITY % otheraddr.element:[
<!ELEMENT otheraddr %ho; (%docinfo.char.mix;)*>
</!!--end of otheraddr.element-->]]>

<!ENTITY % otheraddr.attlist "INCLUDE">
<!ENTITY % otheraddr.attlist:[
<!ATTLIST otheraddr
%common.attrib;
%otheraddr.role.attrib;
%local.otheraddr.attrib;
>]
</!!--end of otheraddr.attlist-->]]>

<!ENTITY % affiliation.content.module "INCLUDE">
<!ENTITY % affiliation.content.module:[
<!ENTITY % affiliation.module "INCLUDE">
<!ENTITY % affiliation.module:[
<!ENTITY % local.affiliation.attrib "">

<!ENTITY % affiliation.role.attrib "role.attrib;">

<!ENTITY % affiliation.element "INCLUDE">
<!ENTITY % affiliation.element:[
<!ELEMENT affiliation %ho; (shortaffil?, jobtitle*, orgname?, orgdiv*, address*)>
</!!--end of affiliation.element-->]]>

<!ENTITY % affiliation.attlist "INCLUDE">
<!ENTITY % affiliation.attlist:[
<!ATTLIST affiliation
%common.attrib;
%affiliation.role.attrib;
%local.affiliation.attrib;
>]
</!!--end of affiliation.attlist-->]]>

<!ENTITY % shortaffil.module "INCLUDE">
<!ENTITY % shortaffil.module:[
<!ENTITY % local.shortaffil.attrib "">
<!ENTITY % holder.attlist "INCLUDE">
<![ %holder.attlist; [ 
<!ATTLIST holder 
%common.attrib; 
%holder.role.attrib; 
%local.holder.attrib; > 
!---end of holder.attlist--> ]]> 
<!--end of holder.module--> ]]> 
<!--end of copyright.content.module--> ]]> 

<!-- CorpAuthor ....................... -->

<!ENTITY % corpauthor.module "INCLUDE">
<![ %corpauthor.module; [ 
<!ENTITY % local.corpauthor.attrib ""; > 
<!ENTITY % corpauthor.role.attrib "%role.attrib;"; > 

<!ENTITY % corpauthor.element "INCLUDE">
<![ %corpauthor.element; [ 
<!ELEMENT corpauthor %ho; (%docinfo.char.mix;)* > 
<!--end of corpauthor.element--> ]]> 

<!ENTITY % corpauthor.attlist "INCLUDE">
<![ %corpauthor.attlist; [ 
<!ATTLIST corpauthor 
%common.attrib; 
%corpauthor.role.attrib; 
%local.corpauthor.attrib; > 
!---end of corpauthor.attlist--> ]]> 
<!--end of corpauthor.module--> ]]> 

<!-- CorpCredit ...................... -->

<!ENTITY % corpcredit.module "INCLUDE">
<![ %corpcredit.module; [ 
<!ENTITY % local.corpcredit.attrib ""; > 
<!ENTITY % corpcredit.role.attrib "%role.attrib;"; > 

<!ENTITY % corpcredit.element "INCLUDE">
<![ %corpcredit.element; [ 
<!ELEMENT corpcredit %ho; (%docinfo.char.mix;)* > 
<!--end of corpcredit.element--> ]]> 

<!ENTITY % corpcredit.attlist "INCLUDE">
<![ %corpcredit.attlist; [ 

---

Open Source Used In OnPrem2.1 2.2 32816
other temporal CDATA #IMPLIED
%common.attrib;
%bibliocoverage.role.attrib;
%local.bibliocoverage.attrib;
>
<!--end of bibliocoverage.attlist-->
<!--end of bibliocoverage.module-->

<!-- InvPartNumber .................... -->

<!ENTITY % invpartnumber.module "INCLUDE">
<![CDATA[
<!ENTITY % local.invpartnumber.attrib "">
<!ENTITY % invpartnumber.role.attrib "%role.attrib;">!
<!ENTITY % invpartnumber.element "INCLUDE">
<![CDATA[
<!ELEMENT invpartnumber %ho; (%docinfo.char.mix;)*>
<!--end of invpartnumber.element-->
]]>

<!ENTITY % invpartnumber.attlist "INCLUDE">
<![CDATA[
<!ATTLIST invpartnumber %common.attrib;
%invpartnumber.role.attrib;
%local.invpartnumber.attrib;
>
<!--end of invpartnumber.attlist-->
<!--end of invpartnumber.module-->

<!-- IssueNum ......................... -->

<!ENTITY % issuenum.module "INCLUDE">
<![CDATA[
<!ENTITY % local.issuenum.attrib "">
<!ENTITY % issuenum.role.attrib "%role.attrib;">!
<!ENTITY % issuenum.element "INCLUDE">
<![CDATA[
<!ELEMENT issuenum %ho; (%docinfo.char.mix;)*>
<!--end of issuenum.element-->
]]>

<!ENTITY % issuenum.attlist "INCLUDE">
<![CDATA[
<!ATTLIST issuenum %common.attrib;
%issuenum.role.attrib;
%local.issuenum.attrib;
]]>
<!ATTLIST othercredit
class(graphicdesigner
[productioneditor
|copyeditor
|technicaleditor
|translator
|other)#IMPLIED
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
>
<!--end of othercredit.attlist-->

<!--(see "Personal identity elements" for %person.ident.mix;)-->
<!--end of othercredit.module-->

<!-- PageNums ......................... -->

<!--ENTITY % pagenums.module "INCLUDE"-->
<![%pagenums.module;[
<!--ENTITY % local.pagnums.attrib ""-->
<!--ENTITY % pagenums.role.attrib "%role.attrib;"-->

<!--ENTITY % pagenums.element "INCLUDE"-->
<![%pagenums.element;[
<!--ELEMENT pagenums %ho; (%docinfo.char.mix;)*>-->
<!--end of pagenums.element-->

<!--ENTITY % pagenums.attlist "INCLUDE"-->
<![%pagenums.attlist;[
<!ATTLIST pagenums
%common.attrib;
%pagenums.role.attrib;
%local.pagnums.attrib;
>
<!--end of pagenums.attlist-->
<!--end of pagenums.module-->

<!-- Personal identity elements ...... -->

<!--ENTITY % person.ident.module "INCLUDE"-->
<![%person.ident.module;[
<!--ENTITY % contrib.module "INCLUDE"-->
<![%contrib.module;[
<!--ENTITY % local.contrib.attrib ""-->
<!--ENTITY % contrib.role.attrib "%role.attrib;"-->

Open Source Used In OnPrem2.1 2.2 32826
<!ENTITY % productname.role.attrib "%role.attrib;">  

<!ENTITY % productname.element "INCLUDE">  
<![%productname.element;]  
<!ELEMENT productname %ho; (%para.char.mix;)*>  
<!--end of productname.element-->

<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % productname.attlist "INCLUDE">  
<![%productname.attlist;]  
<!ATTLIST productname  
class	(service|trade|registered|copyright) 'trade'  
%common.attrib;  
%productname.role.attrib;  
%local.productname.attrib;  
>  
<!--end of productname.attlist-->

<!--end of productname.module-->

<!-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">  
<![%productnumber.module;]  
<!ENTITY % local.productnumber.attrib "">  
<!ENTITY % productnumber.role.attrib "%role.attrib;">  

<!ENTITY % productnumber.element "INCLUDE">  
<![%productnumber.element;]  
<!ELEMENT productnumber %ho; (%docinfo.char.mix;)*>  
<!--end of productnumber.element-->

<!ENTITY % productnumber.attlist "INCLUDE">  
<![%productnumber.attlist;]  
<!ATTLIST productnumber  
%common.attrib;  
%productnumber.role.attrib;  
%local.productnumber.attrib;  
>  
<!--end of productnumber.attlist-->

<!--end of productnumber.module-->

<!-- PubDate .......................... -->

<!ENTITY % productnumber.element "INCLUDE">  
<![%productnumber.element;]  
<!ELEMENT productnumber %ho; (%docinfo.char.mix;)*>  
<!--end of productnumber.element-->

<!ENTITY % productnumber.attlist "INCLUDE">  
<![%productnumber.attlist;]  
<!ATTLIST productnumber  
%common.attrib;  
%productnumber.role.attrib;  
%local.productnumber.attrib;  
>  
<!--end of productnumber.attlist-->

<!--end of productnumber.module-->

<!-- PubDate .......................... -->
<!ENTITY % classname.module "INCLUDE">
<!ENTITY % local.classname.attrib """>
<!ENTITY % classname.role.attrib "%role.attrib;">
<!ENTITY % classname.element "INCLUDE">
<!ENTITY % classnamemodule;[
<!ELEMENT classname %ho; (%smallcptr.char.mix;)*>
<!--end of classname.element-->
]
<!ENTITY % classname.attlist "INCLUDE">
<!ENTITY % local.classname.attrib "" />
<!ATTLIST classname
%common.attrib;
%classname.role.attrib;
%local.classname.attrib;
>
<!--end of classname.attlist-->
]
<!ENTITY % package.module "INCLUDE">
<!ENTITY % local.package.attrib "" >
<!ENTITY % package.role.attrib "%role.attrib;">
<!ENTITY % package.element "INCLUDE">
<!ELEMENT package %ho; (%smallcptr.char.mix;)*>
<!--end of package.element-->
]
<!ENTITY % package.attlist "INCLUDE">
<!ENTITY % local.package.attrib "" >
<!ATTLIST package
%common.attrib;
%package.role.attrib;
%local.package.attrib;
>
<!--end of package.attlist-->
]
<!ENTITY % co.module "INCLUDE">
<!ENTITY % local.co.attrib "" >
<!ENTITY % co.role.attrib "%role.attrib;">

<!-- CO is a callout area of the LineColumn unit type (a single character position); the position is directly indicated by the location of CO. -->

<!ENTITY % co.role.attrib "%role.attrib;">
<!ENTITY % co.element "INCLUDE">
<![ %co.element;[ 
<!ELEMENT co %ho; EMPTY>
<!-- end of co.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->

<!ENTITY % co.attlist "INCLUDE">
<![ %co.attlist;[ 
<!ATTLIST co 
%label.attrib;
%linkends.attrib;
%idreq.common.attrib;
%co.role.attrib;
%local.co.attrib;
> 
<!-- end of co.attlist-->]]>
<!-- end of co.module-->]]>

<!ENTITY % coref.module "INCLUDE">
<![ %coref.module;[ 
<!ENTITY % local.coref.attrib "";
<!ELEMENT coref %ho; EMPTY>
<!-- to any related information -->
<!-- bug number/symbol override or initialization -->
<!ENTITY % coref.attlist "INCLUDE">
<![ %coref.attlist;[ 
<!ATTLIST coref 
%label.attrib;
%linkendreq.attrib;
%common.attrib;
%coref.role.attrib;
%local.coref.attrib;
> 
<!-- end of coref.attlist-->]]>
<!-- end of coref.module-->]]>

<!ENTITY % command.module "INCLUDE">

<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which
file can be found -->

<ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;]
<!ATTLIST filename
class(headerfile
|partition
|devicefile
|libraryfile
|directory
|extension
|symlink) #IMPLIED
pathCDATA#IMPLIED
%moreinfo.attrib;
%common.attrib;
%filename.role.attrib;
%local.filename.attrib;
>
<!--end of filename.attlist-->]]>
<!--end of filename.module-->]]>

<!-- Function: The function names -->

<ENTITY % function.module "INCLUDE">
<![%function.module;]
<!--end of guisubmenu.module-->]

<!ENTITY % hardware.module "INCLUDE">
<![%hardware.module;]
<!ENTITY % local.hardware.attrib "">
<!ENTITY % hardware.role.attrib "%role.attrib;">  

<!ENTITY % hardware.element "INCLUDE">
<![%hardware.element;]
<!ELEMENT hardware %ho; (%cptr.char.mix;)*>  

<!ENTITY % hardware.attlist "INCLUDE">
<![%hardware.attlist;]
<!ATTLIST hardware
%moreinfo.attrib;
%common.attrib;
%hardware.role.attrib;
%local.hardware.attrib;
>
<!--end of hardware.attlist-->]]>
<!--end of hardware.module-->]]>

<!ENTITY % interface.module "INCLUDE">
<![%interface.module;]
<!ENTITY % local.interface.attrib "">
<!ENTITY % interface.role.attrib "%role.attrib;">  

<!ENTITY % interface.element "INCLUDE">
<![%interface.element;]
<!ELEMENT interface %ho; (%smallcptr.char.mix;|accel)*>  

<!ENTITY % interface.attlist "INCLUDE">
<![%interface.attlist;]
<!ATTLIST interface
%moreinfo.attrib;
%common.attrib;
%interface.role.attrib;
%local.interface.attrib;
>
<!--end of interface.attlist-->]]>
<!--end of interface.module-->]]>

<!ENTITY % keycap.module "INCLUDE">
<![%keycap.module;]
<!ATTLIST keycap
<!ENTITY % varname.element "INCLUDE">
<![ %varname.element; [
<!ELEMENT varname %ho; (%smallcptr.char.mix;)*>
<!--end of varname.element--]]>

<!ENTITY % varname.attlist "INCLUDE">
<![ %varname.attlist; [
<!ATTLIST varname
%common.attrib;
%varname.role.attrib;
%local.varname.attrib;
>
<!--end of varname.attlist--]]>
<!--end of varname.module--]]>

<!ENTITY % markup.module "INCLUDE">
<![ %markup.module;[
<!ENTITY % local.markup.attrib "">
<!ENTITY % markup.role.attrib "%role.attrib;"> 

<!ENTITY % markup.element "INCLUDE">
<![ %markup.element;[
<!ELEMENT markup %ho; (%smallcptr.char.mix;)*>
<!--end of markup.element--]]>

<!ENTITY % markup.attlist "INCLUDE">
<![ %markup.attlist;[
<!ATTLIST markup
%common.attrib;
%markup.role.attrib;
%local.markup.attrib;
>
<!--end of markup.attlist--]]>
<!--end of markup.module--]]>

<!ENTITY % medialabel.module "INCLUDE">
<![ %medialabel.module;[
<!ENTITY % local.medialabel.attrib "">
<!ENTITY % medialabel.role.attrib "%role.attrib;"> 

<!ENTITY % medialabel.element "INCLUDE">
<![ %medialabel.element;[
<!ELEMENT medialabel %ho; (%smallcptr.char.mix;)*>
<!--end of medialabel.element--]]>

<!-- Class: Type of medium named by the element; no default -->
<!ENTITY % shortcut.attlist "INCLUDE">
<![%shortcut.attlist;[ATTLIST shortcut
%keyaction.attrib;
%moreinfo.attrib;
%common.attrib;
%shortcut.role.attrib;
%local.shortcut.attrib;
>]
<!--end of shortcut.module-->]]>
<!--end of shortcut.module-->
<!--end of menuchoice.content.module-->]]>

<!ENTITY % mousebutton.module "INCLUDE">
<![%mousebutton.module;[
<!ENTITY % local.mousebutton.attrib ""'>
<!ENTITY % mousebutton.role.attrib "%role.attrib;">

<!ENTITY % mousebutton.element "INCLUDE">
<![%mousebutton.element;[
<!ELEMENT mousebutton %ho; (%smallcptr.char.mix;)*>
<!--end of mousebutton.element-->]]>
<!--end of mousebutton.element-->
<!--end of mousebutton.module-->

<!ENTITY % msgtext.module "INCLUDE">
<![%msgtext.module;[
<!ENTITY % local.msgtext.attrib ""'>
<!ENTITY % msgtext.role.attrib "%role.attrib;">

<!ENTITY % msgtext.element "INCLUDE">
<![%msgtext.element;[
<!ELEMENT msgtext %ho; ((%component.mix;)+)>
<!--end of msgtext.element-->]]>
<!--end of msgtext.element-->
<!--end of msgtext.module-->]]>
<!ENTITY % property.module "INCLUDE">
<![%property.module;]
<!ENTITY % local.property.attrib "">
<!ENTITY % property.role.attrib "%role.attrib;">

<!ENTITY % property.element "INCLUDE">
<![%property.element;]
<!ELEMENT property %ho; (%cptr.char.mix;)*>
<!--end of property.element-->

<!ENTITY % property.attlist "INCLUDE">
<![%property.attlist;]
<!ATTLIST property
%moreinfo.attrib;
%common.attrib;
%property.role.attrib;
%local.property.attrib;
>
<!--end of property.attlist-->
<!--end of property.module-->

<!ENTITY % replaceable.module "INCLUDE">
<![%replaceable.module;]
<!ENTITY % local.replaceable.attrib "">
<!ENTITY % replaceable.role.attrib "%role.attrib;">

<!ENTITY % replaceable.element "INCLUDE">
<![%replaceable.element;]
<!ELEMENT replaceable %ho; (#PCDATA
| %link.char.class;
| optional
| %base.char.class;
| %other.char.class;
| inlinegraphic
| inlinemediaobject
| co)*>
<!--end of replaceable.element-->

<!-- Class: Type of information the element represents; no
default -->

<!ENTITY % replaceable.attlist "INCLUDE">
<![%replaceable.attlist;]
<!ATTLIST replaceable
class(command
|function
|option

---
|parameter| #IMPLIED
%common.attrib;
%replaceable.role.attrib;
%local.replaceable.attrib;
>
<!--end of replaceable.attlist-->

<!--end of replaceable.module-->

<!ENTITY % returnvalue.module "INCLUDE">
<!--%returnvalue.module;
<!ENTITY % local.returnvalue.attrib "">
<!--ENTITY % returnvalue.role.attrib "%role.attrib;">

<!--ENTITY % returnvalue.element "INCLUDE">
<!--%returnvalue.element;
<!ELEMENT returnvalue %ho; (%smallcptr.char.mix;)*>
<!--end of returnvalue.element-->

<!--ENTITY % returnvalue.attlist "INCLUDE">
<!--%returnvalue.attlist;
<!ATTLIST returnvalue
%common.attrib;
%returnvalue.role.attrib;
%local.returnvalue.attrib;
>
<!--end of returnvalue.attlist-->

<!--end of returnvalue.module-->

<!ENTITY % sgmltag.module "INCLUDE">
<!--%sgmltag.module;
<!ENTITY % local.sgmltag.attrib "">
<!ENTITY % sgmltag.role.attrib "%role.attrib;">

<!ENTITY % sgmltag.element "INCLUDE">
<!--%sgmltag.element;
<!ELEMENT sgmltag %ho; (%smallcptr.char.mix;)*>
<!--end of sgmltag.element-->

<!-- Class: Type of SGML construct the element names; no default -->

<!ENTITY % sgmltag.attlist "INCLUDE">
<!--%sgmltag.attlist;
<!ATTLIST sgmltag
class (attribute
| attvalue
| element
| endtag

Open Source Used In OnPrem2.1 2.2 32859
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE doc [
<!ENTITY % common.attrib; "%common.cdata;">
<!ENTITY % structfield.module "INCLUDE">
<!ENTITY % structfield.element "INCLUDE">
<!ENTITY % structfield.attlist "INCLUDE">
<!ENTITY % structname.module "INCLUDE">
<!ENTITY % structname.element "INCLUDE">
]>
<!ENTITY % structname.role.attrib "%role.attrib;">
<!ENTITY % common.attrib; %uri.role.attrib; %local.uri.attrib; >
<!ENTITY % token.module "INCLUDE"> <![%token.module:]
<!ENTITY % local.token.attrib ""> <!ENTITY % token.role.attrib "%role.attrib;"> 
<!ENTITY % token.element "INCLUDE"> <![%token.element:]
<!ELEMENT token %ho; (%smallcptr.char.mix;)*> <!ENTITY % local.token.attrib ""> <!ENTITY % token.role.attrib "%role.attrib;"> 
<!ENTITY % type.module "INCLUDE"> <![%type.module:]
<!ENTITY % local.type.attrib ""> <!ENTITY % type.role.attrib "%role.attrib;"> 
<!ENTITY % type.element "INCLUDE"> <![%type.element:]
<!ELEMENT type %ho; (%smallcptr.char.mix;)*> 
<!ENTITY % token.attlist "INCLUDE"> <![%token.attlist:]
<!ATTLIST token %common.attrib; %token.role.attrib; %local.token.attrib; > 
<!ENTITY % type.attlist "INCLUDE"> <![%type.attlist:]
<!ATTLIST type %common.attrib; %type.role.attrib; %local.type.attrib; > 
<!ENTITY % userinput.module "INCLUDE">
<!DOCTYPE html>
<html><head></head><body>

<!-- Pubwork: Genre of published work cited; no default -->

<!ENTITY % emph.assembly "INCLUDE">
<!ENTITY % emph.assembly; [
<!ELEMENT emph %ho; (%para.char.mix;)*>
<!ENTITY % emph.role.attrib "%role.attrib;">
<!ENTITY % emph.attrib "INCLUDE">
<!ENTITY % emph.attrib; [
<!ATTLIST emph
  role #IMPLIED
  %common.attrib;]
<!ENTITY % emph %local.emphasis.attrib "">
<!ENTITY % emph %emphasis.role.attrib "%role.attrib;">"}
<!ENTITY % emph %emphasis.element "INCLUDE">
<!ENTITY % emph.element; [
<!ELEMENT emph %ho; (%para.char.mix;)*>"}-->

Open Source Used In OnPrem2.1 2.2 32867
<!-- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element -->
<!-- to linked-to object -->

<!ENTITY % xref.attlist "INCLUDE">
<![%xref.attlist;[
<!ATTLIST xref
endtermIDREF#IMPLIED
xrefstyleCDATA#IMPLIED
%common.attrib;
%linkendreq.attrib;
%xref.role.attrib;
%local.xref.attrib;
>
<!--end of xref.attlist-->]]>
<!--end of xref.module-->]]>

<!ENTITY % biblioref.module "INCLUDE">
<![%biblioref.module;[
<!ENTITY % local.biblioref.attrib "">
<!ENTITY % indexterm.attlist "INCLUDE">
<!ATTLIST indexterm %pagenum.attrib; scope(all |global |local)#IMPLIED significance(preferred |normal)"normal" class(singular |startofrange |endofrange)#IMPLIED startrefIDREF#IMPLIED zoneIDREFS#IMPLIED typeCDATA#IMPLIED %common.attrib; %indexterm.role.attrib; %local.indexterm.attrib; >
<!end of indexterm.attlist-->
<!end of indexterm.module-->

<!ENTITY % primsecter.module "INCLUDE">
<!ENTITY % primsecter.module: [
<!ENTITY % local.primsecter.attrib "" >
<!ENTITY % primsecter.role.attrib "%role.attrib;" >

<!ENTITY % primary.element "INCLUDE">
<%primary.element: [
<!ELEMENT primary %ho; (%ndxterm.char.mix;)*>  
<!end of primary.element--->]
<!- SortAs: Alternate sort string for index sorting, e.g.,  
"fourteen" for an element containing "14" -->
<!ENTITY % seeseealso.module "INCLUDE">
<![%seeseealso.module:]

<!ENTITY % local.seeseealso.attrib "">  
<!ENTITY % seesealso.role.attrib "%role.attrib;"> 

<!ENTITY % see.element "INCLUDE">  
<![%see.element;[  
<!ELEMENT see %ho; (%ndxterm.char.mix;)*>  
<!--end of see.element-->]]>

<!ENTITY % see.attlist "INCLUDE">  
<![%see.attlist:][  
<!ATTLIST see  
%common.attrib;  
%seeseealso.role.attrib;  
%local.seeseealso.attrib;  
>  
<!--end of see.attlist-->]]>

<!ENTITY % seealso.element "INCLUDE">  
<![%seealso.element:][  
<!ELEMENT seealso %ho; (%ndxterm.char.mix;)*>  
<!--end of seealso.element-->]]>

<!ENTITY % seealso.attlist "INCLUDE">  
<![%seealso.attlist:][  
<!ATTLIST seealso  
%common.attrib;  
%seeseealso.role.attrib;  
%local.seeseealso.attrib;  
>  
<!--end of seealso.attlist-->]]>

<!-- End of DocBook XML information pool module V4.4 ...................... -->  
<!-- ...................................................................... -->

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-4.4.zip-cosi-expand-archive-xcVgNXBw/dbpoolx.mod  
* /opt/ws_local/PERMITS_SQL/1012474627_1590624818.72/0/docbook-dtds-1.0-60.el7.src.rpm-cosi-expand-archive-sLxqqjbD/docbook-xml-4.4.zip-cosi-expand-archive-AS36Qi10/dbpoolx.mod  
No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->

<!-- DocBook XML notations module V4.1.2 ......................... -->
<!-- File dbnotnx.mod ............................................ -->
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<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook XML Notations V4.1.2//EN"
"dbnotnx.mod">

%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/target/HotSwappableTargetSource.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
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  jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
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  jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
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  jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
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  jar/org/springframework/aop/MethodMatcher.java
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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-
  jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java

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* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-jar/org/springframework/aop/AfterAdvice.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136830559_1613931229.98/0/spring-aop-3-2-3-release-sources-2-jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
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1.3269 ognl 2.7.3
1.3269.1 Available under license:

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/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen*///--------------------------------------------------------------------------
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This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
Blanshard then made up the new name and reimplemented it using ANTLR, refining and
polishing the language a bit on the way. Drew maintained the system for a couple of
years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
dependency on ANTLR.

See package.html for a description of the language.

options {
    // Parser options
    LOOKAHEAD = 1;
    STATIC = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT = true;
}

package ognl;

import java.math.*;

/**
* OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */
public class OgnlParser/*@bgen(jjtree)*@bgen(jjtree)*@gen*@
{/*@bgen(jjtree)*/
protected JJTOgnlParserState jjtree = new JJTOgnlParserState();
/*@gen*/
}

PARSER_END(OgnlParser)

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() : {}
{
  expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
  assignmentExpression() (","/*@bgen(jjtree) #Sequence( 2) */
  {
    ASTSequence jjtn001 = new ASTSequence(JJTSEQUENCE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }
  try {
    /*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte001) {
    if (jjtc001) {
      jjtree.clearNodeScope(jjtn001);
      jjtc001 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
      throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
      throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
  }
}
void assignmentExpression() {
    conditionalTestExpression() [ 
        condition = new ASTAssign(JJTASSIGN);
        boolean jtc001 = true;
        jjtree.openNodeScope(condition);
    }

    try {
        catch (Throwable jjte001) {
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        }
        finally {
            if (jjtc001) {
                jjtree.closeNodeScope(condition, 2);
            }
        }
    } finally {
        if (jjtc001) {
            jjtree.clearNodeScope(condition);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(condition, 2);
        }
    }

    conditionalTestExpression() [ 
        condition = new ASTTest(JJTTEST);
    }
}

void conditionalTestExpression() {
    logicalOrExpression() [ 
        condition = new ASTTest(JJTTEST);
    }
}

void logicalOrExpression() {
    conditionalTestExpression() [ 
        condition = new ASTTest(JJTTEST);
    }
}

// assignment expression (level 13)
void assignmentExpression() {}
{
    conditionalTestExpression() [ "="/*@bgen(jjtree) #Assign( 2) */ 
    {
        ASTAssign jjtn001 = new ASTAssign(JJTASSIGN);
        boolean jtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }

    try {
        catch (Throwable jjte001) {
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        }
        finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    } finally {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }

    conditionalTestExpression() [ 
        condition = new ASTTest(JJTTEST);
    }
}

// conditional test (level 12)
void conditionalTestExpression() {}
{
    logicalOrExpression() [ 
        condition = new ASTTest(JJTTEST);
    }
}
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
    /*@egen*/ conditionalTestExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException) jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException) jjte001;
    }
    throw (Error) jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 3);
    }
}

/*@egen*/

//-- logical or (||) (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() ("||" | "or")/*@bgen(jjtree) #Or( 2) */
    {
        ASTOr jjtn001 = new ASTOr(JJTOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ logicalAndExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException) jjte001;
        }
    }
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
try {
    inclusiveOrExpression()/*@bgen(jjtree)*/
    {  
        ASTAnd jjtn001 = new ASTAnd(JJTAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
        try {
            inclusiveOrExpression()/*@bgen(jjtree)*/
            } catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
                throw (Error)jjte001;
            } finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, 2);
                }
            } /*@egen*/
        }*@
    }*@
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
} /*@egen*/
}*

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() ("|")/*@bgen(jjtree) #BitOr( 2) */
    {
        ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
    ?>/*/egen*/ exclusiveOrExpression()/*@bgen(jjtree)*/
        catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001,  2);
            }
        }
    }*/@egen*/
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() (^)/*@bgen(jjtree) #Xor( 2) */
    {
        ASTXor jjtn001 = new ASTXor(JJTXOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
    }*/@egen*/ andExpression()/*@bgen(jjtree)*/
        catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, JJSINGLE);
    }
}
*/@egen*/        )*
}*/@egen*/
// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {} {
    equalityExpression() (("&" | "band")/*@bgen(jjtree) #BitAnd( 2) */
    {
        ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }/*@egen*/
}*/@egen*/

void equalityExpression() : {}
{
    relationalExpression()
    {
        ("==" | "eq")/*@bgen(jjtree) #Eq( 2) */
        {
            ASTEq jtn001 = new ASTEq(JJTEQ);
            boolean jtc001 = true;
            jjtree.openNodeScope(jtn001);
        }
        try {
            /*@egen*/ relationalExpression()/*@bgen(jjtree)*/
            } catch (Throwable jjte001) {
                if (jtc001) {
                    jjtree.clearNodeScope(jtn001);
                    jtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
                throw (Error)jjte001;
            } finally {
                if (jtc001) {
                    jjtree.closeNodeScope(jtn001, 2);
                }
            }
        }
    } catch (Throwable jjte002) {
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jtc001) {
            jjtree.closeNodeScope(jtn001, 2);
        }
    }
}
if (jjtc002) {
    jjtree.clearNodeScope(jjtn002);
    jjtc002 = false;
} else {
    jjtree.popNode();
}

if (jjte002 instanceof RuntimeException) {
    throw (RuntimeException)jjte002;
}

if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
}

throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}

/*@egen*/
)

/*@egen*/

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
    shiftExpression()
    {
        
        
        
        try {
            catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
            }
        }
    }
}
```java
try {
    shiftExpression()
}
```
jjtree.clearNodeScope(jjtn003);
jjtc003 = false;
} else {
jjtree.popNode();
}
if (jjte003 instanceof RuntimeException) {
throw (RuntimeException)jjte003;
}
if (jjte003 instanceof ParseException) {
throw (ParseException)jjte003;
}
throw (Error)jjte003;
} finally {
if (jjtc003) {
jjtree.closeNodeScope(jjtn003, 2);
}
}

/*@egen*/

("\ge" | "gte")/*@bgen(jjtree) #GreaterEq(2) */{
ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
boolean jjtc004 = true;
jjtree.openNodeScope(jjtn004);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
catch (Throwable jjte004) {
if (jjtc004) {
jjtree.clearNodeScope(jjtn004);
jjtc004 = false;
} else {
jjtree.popNode();
}
if (jjte004 instanceof RuntimeException) {
throw (RuntimeException)jjte004;
}
if (jjte004 instanceof ParseException) {
throw (ParseException)jjte004;
}
throw (Error)jjte004;
} finally {
if (jjtc004) {
jjtree.closeNodeScope(jjtn004, 2);
}

/*@egen*/
"in"/@bgen(jjtree) #In (2) /*
[
    ASTIn jjtn005 = new ASTIn(JJTIN);
    boolean jjtc005 = true;
    jjtree.openNodeScope(jjtn005);
]
try {
    /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    catch (Throwable jjte005) {
        if (jjtc005) {
            jjtree.clearNodeScope(jjtn005);
            jjtc005 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte005 instanceof RuntimeException) {
            throw (RuntimeException)jjte005;
        }
        if (jjte005 instanceof ParseException) {
            throw (ParseException)jjte005;
        }
        throw (Error)jjte005;
    }
    finally {
        if (jjtc005) {
            jjtree.closeNodeScope(jjtn005, 2);
        }
    }
} /*@egen*/

"not" "in"/@bgen(jjtree) #NotIn (2) /*
[
    ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
    boolean jjtc006 = true;
    jjtree.openNodeScope(jjtn006);
]
try {
    /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    catch (Throwable jjte006) {
        if (jjtc006) {
            jjtree.clearNodeScope(jjtn006);
            jjtc006 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte006 instanceof RuntimeException) {
            throw (RuntimeException)jjte006;
        }
        if (jjte006 instanceof ParseException) {
            throw (ParseException)jjte006;
        }
        throw (Error)jjte006;
    }
} /*@egen*/
throw (ParseException)jjte006;
}
throw (Error)jjte006;
} finally {
  if (jjtc006) {
    jjtree.closeNodeScope(jjtn006, 2);
  }
}

/*@egen*/
)*
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
  additiveExpression()
  :
    ("<" | "shl")/*@bgen(jjtree) #ShiftLeft(2) */
    {
      ASTShiftLeft jjtn001 = new ASTShiftLeft(JJTSHIFTLEFT);
      boolean jjtc001 = true;
      jjtree.openNodeScope(jjtn001);
    }
  try {
    /*@egen*/ additiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
      if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
      } else {
        jjtree.popNode();
      }
      if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
      }
      if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
      }
      throw (Error)jjte001;
    } finally {
      if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
      }
    }
  } /*@egen*/
  |
    (">>" | "shr")/*@bgen(jjtree) #ShiftRight(2) */
ASTShiftRight jjtn002 = new ASTShiftRight(JJTSHIFTRIGHT);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
}
}
try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
if (jjtc002) {
jjtree.clearNodeScope(jjtn002);
jjtc002 = false;
} else {
jjtree.popNode();
}
if (jjte002 instanceof RuntimeException) {
throw (RuntimeException)jjte002;
}
if (jjte002 instanceof ParseException) {
throw (ParseException)jjte002;
}
throw (Error)jjte002;
} finally {
if (jjtc002) {
jjtree.closeNodeScope(jjtn002, 2);
}
}

/*@egen*/
| ("<<<" | "ushr")/*@bgen(jjtree) #UnsignedShiftRight( 2) */
{
ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
if (jjtc003) {
jjtree.clearNodeScope(jjtn003);
jjtc003 = false;
} else {
jjtree.popNode();
}
if (jjte003 instanceof RuntimeException) {
throw (RuntimeException)jjte003;
}
if (jjte003 instanceof ParseException) {
throw (ParseException)jjte003;
}
throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

/*@egen*/
)*

// binary addition/subtraction (level 3)
void additiveExpression(): {}
{
    multiplicativeExpression()
    ("+"/*@bgen(jjtree) #Add(2) */
    {
        ASTAdd jjtn001 = new ASTAdd(JJTADD);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        @/*@egen*/ multiplicativeExpression()@/*@bgen(jjtree)*/
        ) catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }  @/*@egen*/
    |
    "-"/*@bgen(jjtree) #Subtract(2) */
    {

ASTSubtract jjtn002 = new ASTSubtract(JJTSUBTRACT);
boolean jjtc002 = true;
jtree.openNodeScope(jjtn002);
}
try {
  @egen*/ multiplicativeExpression()*/@bgen(jjtree)*/
  } catch (Throwable jjte002) {
    if (jjtc002) {
      jjtree.clearNodeScope(jjtn002);
      jjtc002 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
      throw (RuntimeException)jjte002;
    } else {
      throw (ParseException)jjte002;
    }
  }
  finally {
    if (jjtc002) {
      jjtree.closeNodeScope(jjtn002, 2);
    }
  }

  /*@egen*/
)*

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {} {
  unaryExpression() {
    "*/@bgen(jjtree) #Multiply( 2) */
    
    ASTMultiply jjtn001 = new ASTMultiply(JJTMULTIPLY);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }
  try {
    /*@egen*/ unaryExpression()*/@bgen(jjtree)*/
    } catch (Throwable jjte001) {
      if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
      } else {

jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
//@egen*/

"/"//@bgen(jjtree) #Divide(2) */
{
    ASTDivide jjtn002 = new ASTDivide(JJTDIVIDE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
//@egen*/ unaryExpression()//@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
//@egen*/

"%"//@bgen(jjtree) #Remainder(2) */
{
    ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
    /*@egen*/ unaryExpression()/*@bgen(jjtree)*/
    catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 2);
        }
    }
    /*@egen*/
    )*
}

// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
    ASTInstanceof ionode;
}
{
    ("-"/*@bgen(jjtree) #Negate( 1) */
    
    ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ unaryExpression()/*@bgen(jjtree)*/
        catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            }
        }
    }

else {
    jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 1);
    }
}

/*@egen*/
|
"+" unaryExpression() // Just leave it there
|
"~"/*@bgen(jjtree) #BitNegate( 1) */
{
    ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
} try {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 1);
    }
}

/*@egen*/
/*! */ /*@bgen(jjtree) #Not( 1) */
{
    ASTNot jjtn003 = new ASTNot(JJTNOT);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
    /*@egen*/ unaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003,  1);
        }
    }
    /*@egen*/
    |
    navigationChain()
    |
    "instanceof"
    t = <IDENT>/*@bgen(jjtree) #Instanceof( 1) */
    {
        ASTInstanceof jjtn004 = new ASTInstanceof(JJTINSTANCEOF);
        boolean jjtc004 = true;
        jjtree.openNodeScope(jjtn004);
    }
    try {
        /*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn004,  1);
            jjtc004 = false;
        }
        /*@egen*/ { sb = new StringBuffer(t.image); ionode = jjtn004; }/*@bgen(jjtree)*/
        finally {
            if (jjtc004) {
                jjtree.closeNodeScope(jjtn004,  1);
            }
// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() {}{
    primaryExpression()
    ( "." /*@egen*/ #Chain( 2 ) */
    {
        ASTChain jjtn001 = new ASTChain(JJTCCHAIN);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
        try {
            /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
            ( LOOKAHEAD(2) methodCall() | propertyName() )
                // Also handle "{", which requires a lookahead of 2.
            | ( LOOKAHEAD(2) projection() | selection() )
            | ( expression( ) )
            /*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 02);
            }
        }
        /*@egen*/
    }
    )
}


Using parentheses to indicate evaluation of the current object makes this language ambiguous, because the expression "ident(args)" could be seen as a single
method call or as a property name followed by an evaluation. We always put the method call first and turn off the ambiguity warning; we always want to interpret this as a method call. */

*/
}

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    (]<CHAR_LITERAL>|<BACK_CHAR_LITERAL>|<STRING_LITERAL>|<INT_LITERAL>|<FLT_LITERAL>)/*@bgen(jjtree) #Const(0) */
    {
        ASTConst jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
       /*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn001, 0);
            jjtc001 = false;
        }
       /*@egen*/
        {
            jjtn001.setValue(token_source.literalValue);
        }/*@bgen(jjtree)*/
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 0);
        }
    }
   /*@egen*/
    |
    "true"/*@bgen(jjtree) #Const(0) */
    {
        ASTConst jjtn002 = new ASTConst(JJTCONST);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
       /*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn002, 0);
            jjtc002 = false;
        }
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 0);
        }
    }
}
false
null
"null"

// Null is the default value in an ASTConst

LOOKAHEAD(2) "#this"
jjtree.openNodeScope(jjtn005);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn005, 0);
jtc005 = false;
}
/*@egen*/ { jjtn005.setName( "this" ); }/*@bgen(jjtree)*/
finally {
if (jjtc005) {
jjtree.closeNodeScope(jjtn005, 0);
}
}
/*@egen*/

LOOKAHEAD(2) "#root"/*@bgen(jjtree) #RootVarRef( 0 ) */
{
ASTRootVarRef jjtn006 = new ASTRootVarRef(JJROOTVARREF);
boolean jjtc006 = true;
jjtree.openNodeScope(jjtn006);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn006, 0);
jtc006 = false;
}
/*@egen*/ { jjtn006.setName( "root" ); }/*@bgen(jjtree)*/
finally {
if (jjtc006) {
jjtree.closeNodeScope(jjtn006, 0);
}
}
/*@egen*/

LOOKAHEAD(2) "#" t=<IDENT>/*@bgen(jjtree) #VarRef( 0 ) */
{
ASTVarRef jjtn007 = new ASTVarRef(JJTVARREF);
boolean jjtc007 = true;
jjtree.openNodeScope(jjtn007);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn007, 0);
jtc007 = false;
}
/*@egen*/              { jjtn007.setName( t.image ); }/*@bgen(jjtree)*/
}@finally {
if (jjtc007) {
    jjtree.closeNodeScope(jjtn007, 0);
}
}@}@egen*/

LOOKAHEAD(2) ":" "[" expression() "]"/*@bgen(jjtree) #Const(1)*/{
    ASTConst jjtn008 = new ASTConst(JJTCONST);
    boolean jjtc008 = true;
    jjtree.openNodeScope(jjtn008);
    try {
/*@egen*/ /*@bgen(jjtree)*/{
    jjtree.closeNodeScope(jjtn008, 1);
    jjtc008 = false;
}/*@egen*/ { jjtn008.setValue( jjtn008.jjtGetChild(0) ); }/*@bgen(jjtree)*/
}@}@egen*/

LOOKAHEAD(2) constructorCall()

// Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
( LOOKAHEAD(2) methodCall() | propertyName() )

index()

"(" expression() ")"

"["*/@bgen(jjtree) List */{
    ASTList jjtn009 = new ASTList(JJTLIST);
    boolean jjtc009 = true;
    jjtree.openNodeScope(jjtn009);
}]
try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())]*]/*@bgen(jjtree)*/
} catch (Throwable jjte009) {
if (jjtc009) {
    jjtree.clearNodeScope(jjtn009);
    jjtc009 = false;
} else {
    jjtree.popNode();
}
if (jjte009 instanceof RuntimeException) {
    throw (RuntimeException)jjte009;
}
if (jjte009 instanceof ParseException) {
    throw (ParseException)jjte009;
} throw (Error)jjte009;
} finally {
    if (jjtc009) {
        jjtree.closeNodeScope(jjtn009, true);
    }
}
/*@egen*/       "}
| LOOKAHEAD(2)/@bgen(jjtree) Map */
| {
|    ASTMap jjtn010 = new ASTMap(JJTMAP);
|    boolean jjtc010 = true;
|    jjtree.openNodeScope(jjtn010);
|    try {
|        /*@egen*/ ( "#" (className=classReference())? " [" [keyValueExpression() ("," keyValueExpression())*] ">
|        jjtn010.setClassName(className); 
|        " ]="/bgen(jjtree)/" )/*@egen*/
|        } catch (Throwable jjte010) {
|            if (jjtc010) {
|                jjtree.clearNodeScope(jjtn010);
|                jjtc010 = false;
|            } else {
|                jjtree.popNode();
|            }
|            if (jjte010 instanceof RuntimeException) {
|                throw (RuntimeException)jjte010;
|            }
|            if (jjte010 instanceof ParseException) {
|                throw (ParseException)jjte010;
|            } throw (Error)jjte010;
|        } finally {
|            if (jjtc010) {
|                jjtree.closeNodeScope(jjtn010, true);
|            }
|        }
/*@egen*/

```java
void keyValueExpression() : {}
{/*@bgen(jjtree) KeyValue */
  ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
  boolean jjtc001 = true;
  jjtree.openNodeScope(jjtn001);
  try {
    @/*@egen*/
    ( assignmentExpression() (":" assignmentExpression())? )/*@bgen(jjtree)*/
  } catch (Throwable jjte001) {
    if (jjtc001) {
      jjtree.clearNodeScope(jjtn001);
      jjtc001 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
      throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
      throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
  } finally {
    if (jjtc001) {
      jjtree.closeNodeScope(jjtn001, true);
    }
  }
  @/*@egen*/
}
```

```java
void staticReference() : {
  String className = "java.lang.Math";
  Token t;
}
@

{ className=classReference()
  ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
    LOOKAHEAD(2)
    staticMethodCall( className )
  |
    t=<IDENT>/*@bgen(jjtree) #StaticField( 0) */
  |
  }
ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn001, 0);
jjtc001 = false;
}
/*@egen*/
{ jjtn001.init( className, t.image ); }/*@bgen(jjtree)*/
} finally {
if (jjtc001) {
jjtree.closeNodeScope(jjtn001, 0);
}
}
/*@egen*/
)
}

String classReference(): {
    String      result = "java.lang.Math";
}
{
    "@" (result=className())? "@" { return result; }
}

String className(): {
    Token t;
    StringBuffer result;
}
{
    t=<IDENT>       { result = new StringBuffer( t.image ); } 
( "." t=<IDENT>   { result.append('.').append( t.image ); } )*
    { return new String(result); }
}

void constructorCall()       : {/*@bgen(jjtree) Ctor */
ASTCtor jjtn000 = new ASTCtor(JJTCTOR);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
String className;
Token t;
StringBuffer sb;
}
/*@bgen(jjtree) Ctor */
try {

"new" className=className()

(LOOKAHEAD(2)
    "(" [assignmentExpression() ("," assignmentExpression() )*] ")"/@bgen(jjtree)*/
    
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
})

/*@egen*/
{
    jjtn000.setClassName(className);
}
)

| LOOKAHEAD(2) ("" [assignmentExpression() ("," assignmentExpression() )*] ")"/@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn000, true);
        jjtc000 = false;
    }

/*@egen*/
{
    jjtn000.setClassName(className);
}
)

| LOOKAHEAD(2) ("[" "]" "["/@bgen(jjtree) List */
    {
        ASTList jjtn001 = new ASTList(JJTLIST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ [assignmentExpression() ("," assignmentExpression() )*]/*@bgen(jjtree)*/
            ) catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
                throw (Error)jjte001;
            } finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, true);
                }
            }
        }/*@egen*/
        ")"/@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
void propertyName()  
    { /*@bgen(jjtree) Property */
        ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
        boolean jjtc000 = true;
        jjtree.openNodeScope(jjtn000);
        /*@egen*/
        }

    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }  
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }  
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }  
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }  
    }  
    /*@egen*/
void staticMethodCall( String className )               : /*@bgen(jjtree) StaticMethod */
    ASTStaticMethod jjtn000 = new ASTStaticMethod(JJTSTATICMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    Token t;
    } /*@bgen(jjtree) StaticMethod */
    try {
    /*@egen*/
    t=<IDENT> "(" [ assignmentExpression( ) ( "," assignmentExpression( ) )* ] ")"/*@bgen(jjtree)*/
    { jjtree.closeNodeScope(jjtn000, true);
        jjtc000 = false;
    }
    } /*@egen*/
    { jjtn000.init( className, t.image ); }/*@bgen(jjtree)*/
```java
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/

void methodCall() { /*@bgen(jjtree) Method */
    ASTMethod jjtn000 = new ASTMethod(JJTMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
   /*@egen*/
    Token t;
    {/*@bgen(jjtree) Method */
        try {
           /*@egen*/
            t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
            {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
            }
           /*@egen*/
            { jjtn000.setMethodName( t.image ); }/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
        }
    }
    }/*@bgen(jjtree) Method */
```
}
if (jjte000 instanceof ParseException) {
    throw (ParseException) jjte000;
}
throw (Error) jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
/**
 * Apply an expression to all elements of a collection, creating a new collection 
 * as the result.
 */
void projection() {
    /*@bgen(jjtree) Project */
    ASTProject jjtn000 = new ASTProject(JJTPROJECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    try {
    /*@bgen(jjtree) Project */
        catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException) jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException) jjte000;
            }
            throw (Error) jjte000;
        }
        finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    /*@egen*/
    }
void selection() : {}
{
    LOOKAHEAD(2) selectAll()
    |
    LOOKAHEAD(2) selectFirst()
    |
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() : {/*@bgen(jjtree) Select */
    ASTSelect jjtn000 = new ASTSelect(JJTSELECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
   /*@egen*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}/*@eegen*/
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst() : /*@bgen(jjtree) SelectFirst */
ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
boolean jjtc000 = true;
jtree.openNodeScope(jjtn000);
/*@e gen*/
/*@bgen(jjtree) SelectFirst */
try {
    /*@e gen*/
    "[" "^" expression() "]" /*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@e gen*/

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectLast() : /*@bgen(jjtree) SelectLast */
ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
boolean jjtc000 = true;
jtree.openNodeScope(jjtn000);
/*@e gen*/
/*@bgen(jjtree) SelectLast */
try {
    /*@e gen*/
    "[" "$" expression() "]" /*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
} else {
    jjtree.popNode();
}
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/

void index()           : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    try {
    /*@egen*/
        "[" expression() "]"/*@bgen(jjtree)* /
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
    /*@egen*/
    
    <DYNAMIC_SUBSCRIPT>/ * @bgen(jjtree) Const */
    
    ASTConst jjtn001 = new ASTConst(JJTCONST);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    /*@egen*//*@bgen(jjtree)*/
    try {
        /*@egen*//*@bgen(jjtree)*/
        
        jjtree.closeNodeScope(jjtn001, true);
        jjtc001 = false;
    /*@egen*/
    
    /*@egen*/ { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
    } /*@egen*/

/*@egen*/

/*@egen*/

/*@egen*/

/*@egen*/
```java
jtree.closeNodeScope(jjtn001, true);
}
/* @egen*/       /*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    jjtn000.setIndexedAccess(true);
}/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;
    /** Converts an escape sequence into a character value. */
```
private char escapeChar()
{
int ofs = image.length() - 1;
switch ( image.charAt(ofs) ) {
case 'n': return '\n';
case 'r': return '\r';
case 't': return '\t';
case 'b': return '\b';
case 'f': return '\f';
case '\\': return '\\';
case '\'': return '\'';
case '\"': return '\"';
}
// Otherwise, it's an octal number. Find the backslash and convert.
while ( image.charAt(--ofs) != '\\' )
{}
int value = 0;
while ( ++ofs < image.length() )
value = (value << 3) | (image.charAt(ofs) - '0');
return (char) value;
}
private Object makeInt()
{
Object result;
String s = image.toString();
int base = 10;
if ( s.charAt(0) == '0' )
base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
if ( base == 16 )
s = s.substring(2); // Trim the 0x off the front
switch ( s.charAt(s.length()-1) ) {
case 'l': case 'L':
result = Long.valueOf( s.substring(0,s.length()-1), base );
break;
case 'h': case 'H':
result = new BigInteger( s.substring(0,s.length()-1), base );
break;
default:
result = Integer.valueOf( s, base );
break;
}
return result;
}

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private Object makeFloat()
{
    String s = image.toString();
    switch (s.charAt(s.length()-1)) {
        case 'F': case 'f':
            return Float.valueOf(s);
        case 'B': case 'b':
            return new BigDecimal(s.substring(0, s.length()-1));
        case 'D': case 'd':
            default:
                return Double.valueOf(s);
    }
}

// Whitespace -- ignored
SKIP:
{  " " | \t | \f | \r | \n  }

// An identifier.
TOKEN:
{
    < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
    |
    < #LETTER: ["$","A"-"Z","_","a"-"z","u00c0"-"u00d6","u00d8"-"u00f6","u00f8"-"u00ff","u0100"-"u1fff","u0300"-"u034d","u0360"-"u03ff","u0400"-"u9fff","uf900"-"uaff" ] >
    |
    < #DIGIT: [
        "0"-"9",
        "u0060"-"u0069",
        "u0660"-"u0669",
        "u06f0"-"u06f9",
    ] >
}

```
/* Token for "dynamic subscripts", which are one of: [^], [], $[, and [*]. The
* appropriate constant from the DynamicSubscript class is stored in the token manager's
* "value" field.
*/
TOKEN:
{
  < DYNAMIC_SUBSCRIPT: "[^ ['^','|','$','*'] ]" >
  {
    switch (image.charAt(1)) {
      case '^': literalValue = DynamicSubscript.first; break;
      case '|': literalValue = DynamicSubscript.mid;   break;
      case '$': literalValue = DynamicSubscript.last;  break;
      case '*': literalValue = DynamicSubscript.all;   break;
    }
  }
}

/**
* Character and string literals, whose object value is stored in the token manager's
* "literalValue" field.
*/
MORE:
{
  "``" : WithinBackCharLiteral
  
  """  { stringBuffer = new StringBuffer(); } : WithinCharLiteral
  
  "\""  { stringBuffer = new StringBuffer(); } : WithinStringLiteral
}
```


```java
< ESC: "\" ( ["n","r","t","b","f","\",""]
    | ("0"-"3")? ["0"-"7"] ("0"-"7")?
)>

    { charValue = escapeChar(); stringBuffer.append(charValue); }

< (~["'","\\"]) >
    { charValue = image.charAt(image.length()-1); stringBuffer.append(charValue); }

<WithinCharLiteral> TOKEN:
{
    < CHAR_LITERAL: "">
        {
            if (stringBuffer.length() == 1) {
                literalValue = new Character(charValue);
            } else {
                literalValue = new String(stringBuffer);
            }
        }
    : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
    < BACK_CHAR_ESC: <ESC> >
        { charValue = escapeChar(); }
    |
    < (~["'","\\"]) >
        { charValue = image.charAt(image.length()-1); }
}

<WithinBackCharLiteral> TOKEN:
{
    < BACK_CHAR_LITERAL: "">
        { literalValue = new Character(charValue); }: DEFAULT
}

<WithinStringLiteral> MORE:
{
    < STRING_ESC: <ESC> >
        { stringBuffer.append(escapeChar()); }
    |
    < (~["\",""]>)
        { stringBuffer.append(image.charAt(image.length()-1)); }
}

<WithinStringLiteral> TOKEN:
```
/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */

TOKEN:
{

< INT_LITERAL:
  ( "0" (["0"-"7"])+ | ["1"-"9"] (["0"-"9"])* | "0" ["x","X"] (["0"-"9","a"-"f","A"-"F"])+ )
  (["l","L","h","H"])?
>
  { literalValue = makeInt(); } } |

< FLT_LITERAL:
  ( <DEC_FLT> <EXPONENT>? (<FLT_SUFF>)? |
  <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)? |
  <DEC_DIGITS> <FLT_SUFF> )
>
  { literalValue = makeFloat(); } } |

< #DEC_FLT: (["0"-"9"])+ "." (["0"-"9"])* | "." (["0"-"9"])+ > |
< #DEC_DIGITS: (["0"-"9"])+ > |
< #EXPONENT: ["e","E"] (["+","-" ])? (["0"-"9"])+ > |
< #FLT_SUFF: ["d","D","f","F","b","B"] >
}

Found in path(s):
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ognl.jj
No license file was found, but licenses were detected in source scan.

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// ----------------------------------------------------------------------

/*
 * This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
 * Blanshard then made up the new name and reimplemented it using ANTLR, refining and
 * polishing the language a bit on the way. Drew maintained the system for a couple of
 * years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
 * dependency on ANTLR.
 *
 * See package.html for a description of the language.
 */

options {
    // Parser options
    LOOKAHEAD = 1;
    STATIC = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT = true;

    // Tree options
    MULTI = true;
    NODE_DEFAULT_VOID = true;
}

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;
/**
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
 * syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */

public class OgnlParser
{
}

PARSER_END(OgnlParser)

/**
 * This is the top-level construct of OGNL.
 */

Node topLevelExpression() {
{
    expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() {
{
    assignmentExpression() ( "," assignmentExpression() #Sequence(2) )* 
}

// assignment expression (level 13)
void assignmentExpression() {
{
    conditionalTestExpression() [ ":" assignmentExpression() #Assign(2) ]
}

// conditional test (level 12)
void conditionalTestExpression() {
{
    logicalOrExpression()
        [ "?:" conditionalTestExpression() ":" conditionalTestExpression() #Test(3) ]
}

// logical or (||) (level 11)
void logicalOrExpression() {
{
    logicalAndExpression() ("||" [ "or" ] logicalAndExpression() #Or(2) )* 
}
// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression() ("&&" | "and") inclusiveOrExpression() #And(2)
}

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() ("|" | "bor") exclusiveOrExpression() #BitOr(2)
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() ("^" | "xor") andExpression() #Xor(2)
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() ("&" | "band") equalityExpression() #BitAnd(2)
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
    ("==" | "eq") relationalExpression() #Eq(2)
    |
    ("!=" | "neq") relationalExpression() #NotEq(2)
}

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
    shiftExpression()
    ("<" | "lt") shiftExpression() #Less(2)
    |
    (">" | "gt") shiftExpression() #Greater(2)
| ("<=" | "lte") shiftExpression() #LessEq(2) |
| (">=" | "gte") shiftExpression() #GreaterEq(2) |
| "in" shiftExpression() #In(2) |
| "not" "in" shiftExpression() #NotIn(2) |
|}

void shiftExpression() : {}
{
    additiveExpression()
    |
    ("<<" | "shl") additiveExpression() #ShiftLeft(2)
    |
    (">>" | "shr") additiveExpression() #ShiftRight(2)
    |
    (">>>" | "ushr") additiveExpression() #UnsignedShiftRight(2)
    )*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    |
    "+" multiplicativeExpression() #Add(2)
    |
    "-" multiplicativeExpression() #Subtract(2)
    )*
}

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
    unaryExpression()
    |
    "*" unaryExpression() #Multiply(2)
    |
    "/" unaryExpression() #Divide(2)
    |
    "%" unaryExpression() #Remainder(2)
// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
    ASTInstanceof ionode;
}
{
    (            "-" unaryExpression() #Negate(1)
            |            "+" unaryExpression() // Just leave it there
            |            "~" unaryExpression() #BitNegate(1)
            |            ("!" | "not") unaryExpression() #Not(1)
            |            navigationChain()
    [            "instanceof"
        t = <IDENT> { sb = new StringBuffer(t.image); ionode = jjtThis; } #Instanceof(1)
        (   "." t = <IDENT> { sb.append('.').append( t.image ); }
           )*                          { ionode.setTargetType( new String(sb) ); } 
    ]
}

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
    (            "."
        ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
            ( LOOKAHEAD(2) methodCall() | propertyName() )
            // Also handle "]", which requires a lookahead of 2.
            | ( LOOKAHEAD(2) projection() | selection() )
            | (" expression() ")
        ) #Chain(2)
    )
    | index() #Chain(2)
    | (" expression() ") #Eval(2)

    /* Using parentheses to indicate evaluation of the current object makes this language ambiguous, because the
expression "ident(args)" could be seen as a single method call or as a property name followed by an evaluation. We always put the method call first and turn off the ambiguity warning; we always want to interpret this as a method call. */

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    ( (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> | <FLT_LITERAL>)
        { jjtThis.setValue( token_source.literalValue ); } #Const(0)
    | "true" { jjtThis.setValue( Boolean.TRUE ); } #Const(0)
    | "false" { jjtThis.setValue( Boolean.FALSE ); } #Const(0)
    | "null" #Const(0) // Null is the default value in an ASTConst
    | LOOKAHEAD(2) "#this" { jjtThis.setName( "this" ); } #ThisVarRef(0)
    | LOOKAHEAD(2) "#root" { jjtThis.setName( "root" ); } #RootVarRef(0)
    | LOOKAHEAD(2) "#" t=IDENT> { jjtThis.setName( t.image ); } #VarRef(0)
    | LOOKAHEAD(2) ":." [" expression() "]" { jjtThis.setValue( jjtThis.jjtGetChild(0) ); } #Const(1)
    | staticReference()
    | LOOKAHEAD(2) constructorCall()
    | // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere. ( LOOKAHEAD(2) methodCall() | propertyName() )
    | index()
    | (" expression() ")
    | [" [assignmentExpression() ("," assignmentExpression())]* ] #List ""
    | LOOKAHEAD(2) ( "#" (className=classReference())? [" [keyValueExpression() (","
void keyValueExpression() : {}
{
    ( assignmentExpression() (":" assignmentExpression())? ) #KeyValue
}

void staticReference() : {
    String className = "java.lang.Math";
    Token t;
}
{
    className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
        LOOKAHEAD(2)
        staticMethodCall( className )
        |
        t=<IDENT>               { jjtThis.init( className, t.image ); } #StaticField(0)
    )
}

String classReference(): {
    String result = "java.lang.Math";
}
{
    "@" ( result=className() )? "@" { return result; }
}

String className(): {
    Token t;
    StringBuffer result;
}
{
    t=<IDENT>               { result = new StringBuffer( t.image ); }
    ( "." t=<IDENT>         { result.append( t.image ); }
    )*                      { return new String(result); }
}

void constructorCall() #Ctor : {
    String className;
    Token t;
    StringBuffer sb;
}
{
    "new" className=className()
    (}
LOOKAHEAD(2) ( "([ assignmentExpression() ( "," assignmentExpression() )* ]")
{
    jjtThis.setClassName(className);
}
)
|
LOOKAHEAD(2) ( "[ "] "{ [assignmentExpression() ("," assignmentExpression())*] #List "}" 
{
    jjtThis.setClassName(className);
    jjtThis isArray(true);
}
)
|
LOOKAHEAD(2) ( "[" ] assignmentExpression() "]"
{
    jjtThis.setClassName(className);
    jjtThis isArray(true);
}
}
}
void propertyName() #Property : {
    Token t;
}
{
    t=<IDENT> { jjtThis.setValue( t.image ); } #Const
}

void staticMethodCall( String className ) #StaticMethod : {
    Token t;
}
{
    t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
            { jjtThis.init( className, t.image ); }
}

void methodCall() #Method : {
    Token t;
}
{
    t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
            { jjtThis.setMethodName( t.image ); }
}
/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() #Project : {}
{
  "{ " expression() " "}"
}

void selection() : {}
{
  LOOKAHEAD(2) selectAll()
  
  LOOKAHEAD(2) selectFirst()
  
  LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() #Select : {}
{
  "{ "?!" expression() " "}"
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst() #SelectFirst : {}
{
  "{ "!" expression() " "}"
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectLast() #SelectLast : {}
{
  "{ "$" expression() " "}"
}

void index() #Property : {}
{
  "{ " expression() " "}" { jjtThis.setIndexedAccess(true); }

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// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
    private char escapeChar()
    {
        int ofs = image.length() - 1;
        switch ( image.charAt(ofs) ) {
            case 'n':   return '\n';
            case 'r':   return '\r';
            case 't':   return '\t';
            case 'b':   return '\b';
            case 'f':   return '\f';
            case '\':  return '\';
            case '"':  return '"';
            case '\"': return '\"';

        }

        // Otherwise, it's an octal number. Find the backslash and convert.
        while ( image.charAt(--ofs) != '\' ){}
        int value = 0;
        while ( ++ofs < image.length() )
        {
            value = (value << 3) | (image.charAt(ofs) - '0');
        }
        return (char) value;
    }

    private Object makeInt()
    {
        Object  result;
        String  s = image.toString();
int base = 10;

if ( s.charAt(0) == '0' )
    base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X')) ? 16 : 8;
if ( base == 16 )
    s = s.substring(2); // Trim the 0x off the front
switch ( s.charAt(s.length()-1) ) {
    case 'T': case 'L':
        result = Long.valueOf( s.substring(0,s.length()-1), base );
        break;

    case 'h': case 'H':
        result = new BigInteger( s.substring(0,s.length()-1), base );
        break;

    default:
        result = Integer.valueOf( s, base );
        break;
}
return result;

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );
        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );

        case 'd': case 'D':
            default:
                return Double.valueOf( s );
    }
}

// Whitespace -- ignored
SKIP:
{
    " " | \t | \f | \r | \n
// An identifier.
TOKEN:
{
    < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
/**
 * Token for "dynamic subscripts", which are one of: [^], [||], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */

TOKEN:
{
  < DYNAMIC_SUBSCRIPT: "[" ["^","||","$","*"] "]" >
  {
    switch (image.charAt(1)) {
      case '^': literalValue = DynamicSubscript.first; break;
      case '|': literalValue = DynamicSubscript.mid;   break;
      case '$': literalValue = DynamicSubscript.dollar; break;
      case '*': literalValue = DynamicSubscript.star;  break;
    }
  }
}
/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */

MORE:
{
  """ : WithinBackCharLiteral
 |
  """ { stringBuffer = new StringBuffer(); } : WithinCharLiteral
 |
  "\" { stringBuffer = new StringBuffer(); } : WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: "\" { (["n","r","t","b","f","\w","\",","\",",\"]
    | (["0"-"3"]? ["0"-"7"] (["0"-"7"])?
      )
        >
          { charValue = escapeChar(); stringBuffer.append(charValue); } |
    < (\"\["\"]\) >
        { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); } |
}

<WithinCharLiteral> TOKEN:
{
  < CHAR_LITERAL: "">
    {
      if (stringBuffer.length() == 1) {
        literalValue = new Character( charValue );
      } else {
        literalValue = new String( stringBuffer );
      }
    : DEFAULT
  }
}

<WithinBackCharLiteral> MORE:
{
  < BACK_CHAR_ESC: <ESC> >
    { charValue = escapeChar(); }
}
\begin{verbatim}
| < (~"","\") >  |
| { charValue = image.charAt( image.length()-1 ); } |
|
<WithinBackCharLiteral> TOKEN: |
| { BACK_CHAR_LITERAL: "" > |
| { literalValue = new Character( charValue ); } : DEFAULT |
|
<WithinStringLiteral> MORE: |
| { STRING_ESCAPE: ESC > |
| { stringBuffer.append( escapeChar() ); } |
| < (~"","\") > |
| { stringBuffer.append( image.charAt(image.length()-1) ); } |
|
<WithinStringLiteral> TOKEN: |
| { STRING_LITERAL: "" > |
| { literalValue = new String( stringBuffer ); } : DEFAULT |
|
/**
* Integer or real Numeric literal, whose object value is stored in the token manager's
* "literalValue" field.
*/

TOKEN: |
| { INT_LITERAL: |
| ( "0" ([0-7]) | [1-9] ([0-9]) | 0 [x,X] ([0-9],[a-f],[A-F]) ) |
| ( [I,L,h,h] )? |
| { literalValue = makeInt(); } |
|
| { FLT_LITERAL: |
| ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)? |
| | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)? |
| | <DEC_DIGITS> <FLT_SUFF> |
| ) |
| { literalValue = makeFloat(); } |
\end{verbatim}
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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ognl.jjt

Found in path(s):
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IteratorEnumeration.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSelectFirst.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSequence.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTBitOr.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTRemainder.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/MethodFailedException.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTShiftLeft.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/DefaultTypeConverter.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/Node.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSelectLast.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/EnumerationElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/SetPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTGreater.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTUnsignedShiftRight.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/NumberElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/DynamicSubscript.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IteratorPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IteratorElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTIn.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ClassResolver.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IntHashMap.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlException.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/EvaluationPool.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTEq.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTNegate.java
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Thrown during bytecode enhancement conversions of ognl expressions to indicate that a certain expression isn't currently supported as a pure java bytecode enhanced version.

If this exception is thrown it is expected that ognl will fall back to default ognl evaluation of the expression.

@authors {jkuhnert}

Found in path(s):
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/enhance/UnsupportedCompilationException.java

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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTStaticMethod.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlRuntime.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTProject.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/Ognl.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ArrayPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ObjectPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSelect.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ObjectMethodAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTRootVarRef.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlContext.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTCtor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTProperty.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTMap.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTChain.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTList.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTStaticField.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlOps.java
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1.3270 atk 2.28.1 2.el7

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* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/VersionExclusionStrategy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/MemoryRefStack.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/AnonymousAndLocalClassExclusionStrategy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/ModifyFirstLetterNamingPolicy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/DelegatingJsonElementVisitor.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/ParameterizedTypeHandlerMap.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonObjectDeserializationVisitor.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonTreeNavigator.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonDeserializerExceptionWrapper.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/CompositionFieldNamingPolicy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonDeserializationVisitor.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JavaFieldNamingPolicy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/LowerCamelCaseSeparatorNamingPolicy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/Escaper.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonArrayDeserializationVisitor.java
jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/JsonElementVisitor.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/LowerCaseNamingPolicy.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/Gson.java

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* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/MapAsArrayTypeAdapter.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/stream/JsonScope.java

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* /opt/cola/permits/1001401516_1608552958.01/0/gson-1-7-1-sources-jar/com/google/gson/internal/$Gson$Types.java

1.3274 jaxb-xjc 2.3.0-b170202.1032

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1.3275 libxt 1.1.5 3.el7

1.3276 bcel 5.1
1.3277 icu 50.2-4.el7_7
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed "s/(.*)/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "s/(.*)/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION_MAJOR) $@

## End FreeBSD-specific setup

1.3278 jaranalyzer 1.2
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1.3279 perl-lwp-mediatypes 6.02 2.el7

1.3280 junit 3.8.1

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from https://github.com/junit-team/junit/wiki/FAQ the Supplier's website FAQ:

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1.3281 geo-ip 1.5.0-14.el7
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FIRST NOTE:
This file contains some details about the copyright history of
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Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port). These copyrights
are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the accompanying
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)
The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

* MacBinaryIII.h
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* Basic encoding and decoding of Macintosh files to the MacBinary III spec.
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---------------------------------------------------------------------

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

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-----

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

1.3291 slf4j-api-jdk15 1.5.8-PATCHED
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*/

Found in path(s):
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MarkerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/Marker.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/StaticLoggerBinder.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/ILoggerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/SubstituteLogger.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPLogger.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/Logger.java
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* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/StaticMarkerBinder.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/1186112892_1637937763.33/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
1.3292 jersey-media-multipart 2.26

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1.3293 transactions-api 3.7.0

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Found in path(s):
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-
  jar/com/atomikos/datasource/HeuristicException.java.orig
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 */

//Id: TransactionalResource.java,v 1.1.1.1 2006/08/29 10:01:07 guy Exp $
public interface TransactionalResource extends RecoverableResource
{
    /**
     * Get or create a ResourceTransaction. This instructs the resource
     * to internally start a context for a new transaction.
     * If the resource decides to return a new instance, it should
     * also make sure that before returning, the new resource
     * transaction is registered as a participant for the current
*composite transaction.
*
*
* @param ct The composite transaction for whom this is done.
* This serves as a handle for the resource to determine isolation
* properties, coordinator reference and so on.
* For instance, XA implementations can use the isSameTransaction()
* function to determine if an existing XID should be used to
* start the internal XAResource before passing it on as a
* ResourceTransaction (wrapped) instance.
*
* @return ResourceTransaction a handle to the new context.
*
* @exception IllegalStateException If the given transaction is no longer
* active.
* @exception ResourceException On failure.
*/

public ResourceTransaction
    getResourceTransaction ( CompositeTransaction ct )
    throws IllegalStateException, ResourceException;

//
// /**
// * Gets the state recovery manager for this resource, if any.
// * Only resources that support compensation will have a
// * state recovery manager. This method allows external inspection
// * of the compensatable tx states.
// *
// * @return StateRecoveryManager The state recovery manager, or null if none.
// * For regular XA based resources, this is likely to return null.
// * /
//
// public StateRecoveryManager getRecoveryManager()
//    throws ResourceException;
//
// /**
// * Close the resource manager for shutdown.
// * This notifies the resource manager that it is no longer needed.
// * /
//
// public void close() throws ResourceException;

//**
// *Test if a resource is the same as another one.
// */

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 * limitations under the License.
 */

public boolean isSameRM(TransactionalResource res)
throws ResourceException;

}
package com.atomikos.datasource;

import com.atomikos.icatch.HeuristicMessage;
/**
 *
 */
The notion of a local transaction executed on a resource.
Serves as a handle towards the transaction management module.

public interface ResourceTransaction {//extends Participant
{

/**
 * Get identifier for this tx.
 * Should be unique in system.
 *
 * @return String The identifier, as determined by resource.
 */

public java.lang.String getTid();

/**
 * Get the resource for this transaction.
 *
 * @return TransactionalResource The resource on whose behalf this tx is.
 */

//public TransactionalResource getResource();

/**
 * Add a compensation context for this resource tx.
 *
 * @param context The compensation context.
 * @exception IllegalStateException If no longer active.
 */

public void addCompensationContext(java.util.Dictionary context)
    throws IllegalStateException;

/**
 * Add heuristic resolution information.
 *
 * @param mesg The heuristic message.
 * @exception IllegalStateException If no longer active.
 */

public void addHeuristicMessage(HeuristicMessage mesg)
    throws IllegalStateException;
/**
 * Get heuristic context info.
 * @return HeuristicMessage[] An array of messages, or null if none.
 */

public HeuristicMessage[] getHeuristicMessages();

/**
 * Get the compensation information.
 * @return java.util.Dictionary The compensation info, or null if none.
 */

public java.util.Dictionary getCompensationContext();

/**
 * Suspend the resource transaction, so that underlying resources can
 * be used for a next (sibling) invocation.
 * This is also the recommended method for adding the
 * resource ctx to the coordinator object, but ONLY if
 * the transaction has not been set for rollback.
 * NOTE: suspend is NOT the same as XAResource's suspension!
 * The XAResource version is specific to the XA protocol,
 * and does not belong in the composite system framework.
 * As mentioned in the JTA specs., the APPLICATION SERVER is
 * responsible for XAsuspension and XAresume ( page 11 of JTA
 * API, version of May 12, 1999 ).
 * @exception IllegalStateException If wrong state.
 */

public void suspend() throws IllegalStateException, ResourceException;

/**
 * Resume a suspended tx.
 * @exception IllegalStateException If not right state.
 */

public void resume() throws IllegalStateException, ResourceException;
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//Id: Extent.java,v 1.1.1.1 2006/08/29 10:01:07 guy Exp $
package com.atomikos.icatch;
import java.util.Hashtable;
import java.util.Stack;

/**
 * The extent carries the information about the 'size' of a propagation
 * after it returns: the directly and indirectly invoked servers, and the orphan
 * detection information for those.
 * This interface is a system interface; it should not be handled by application
 * level code.
 * *
 */

public interface Extent extends java.io.Serializable {

    /**
     * Get the remote participants indirectly invoked.
     *
     * @return Hashtable Mapping URIs of remote
     * participants to Integer counts.
     */
    public Hashtable getRemoteParticipants();

    /**
     * Add another extent to the current extent.
     */

public void add (Extent extent) throws IllegalStateException, SysException;

/**
 * Add a participant to the extent.
 * This method is called at the server side, in order to add the work done
 * to the two-phase commit set of the calling (client) side, as well as to
 * make sure that orphan information is propagated through the system.
 *
 * @param participant The participant to add. This instance will
 * be added to the indirect <b>as well as to the direct</b> participant set.
 *
 * @param count The number of invocations detected by the adding client.
 * @exception IllegalStateException If no longer allowed.
 * @exception SysException Unexpected error.
 */

public void add (Participant participant, int count)
throws IllegalStateException, SysException;

/**
 * Get the set of <b>direct</b> participants of this extent.
 * @return Stack A stack of direct participants. Direct participants
 * are those that need to be added to the client TM's two-phase
 * commit set.
 * NOTE: If a participant occurs in the direct participant set,
 * it will also be part of the remote set.
 */

public Stack getParticipants();

    ///**
    // *Get the participant to add at the client TM.
    // *By calling this method, the client TM can get a handle
    // *to include in its coordinator 2PC set for the
    // *composite transaction.
    // */
    //
    //
    // public Participant getParticipant()
    // throws SysException;
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 */

//Id: CompositeCoordinator.java,v 1.1.1.1 2006/08/29 10:01:07 guy Exp $
package com.atomikos.icatch;

/**
 * A CompositeCoordinator represents the per-server work done
 * as part of the same termination scope.
 */

public interface CompositeCoordinator extends java.io.Serializable
{

/**
 * Get the identifier for this coordinator.
 */
@return String The coordinator id.
* For imported transactions, this will be the
  * id of the top-level or root transaction. For
  * subtransactions, this will be an independent id.
 */
public String getCoordinatorId();

/**
 * Get the recovery coordinator instance for this one.
 *
 * @return RecoveryCoordinator The recovery coordinator.
 */

public RecoveryCoordinator getRecoveryCoordinator();

/**
 * Get the tags that were set for this coordinator.
 *
 * @return HeuristicMessage[] The tags set.
 * These serve as a summary of the local work towards remote client TMs (that way, these
do not have to see ALL local heuristic messages,
*but rather get a relevant summary).
*The participant proxy for a local coordinator
*returns these tags as its heuristic messages.
*/

public HeuristicMessage[] getTags();

/**
 * Checks whether the instance is recoverable
 * in the active state. Although active recoverability requires
 * more logging overhead, some protocols may need this capability.
 *
 * @return Boolean True iff recoverable in active state.
 * Null if this information is not available (for imported instances).
 * By default, this is false.
 */

public Boolean isRecoverableWhileActive();

/**
 * Sets this coordinator to be recoverable
 * while active. Ideally, this method is called
 * before any participants are added
 * (otherwise, some participants may have been added
 * and not recovered due to an intermediate crash).
 *
 * This operation may not be unavailable for imported
 * coordinators, but it should always work for
 * locally created (sub)transactions.
public void setRecoverableWhileActive()
throws UnsupportedOperationException;

}
package com.atomikos.datasource;

import com.atomikos.icatch.Participant;
import com.atomikos.icatch.RecoveryService;

/**
 * A Recoverable Resource is the abstraction of a resource
 * that supports recoverable work (i.e., that supports Participant
 * instances). Its primary use is for Participant instances that are
 * not self-containing, as for instance in XA transactions
 * (where the Participant can not contain the entire transaction
 * context of the server, but only an external reference to it in the
 * form of an Xid instance).
 * A recoverable resource is invoked at recovery time by its
 * own Participant instances (typically in the readExternal
 * method), who iteratively ask each resource
 * in the com.atomikos.icatch.Configuration whether or not they
 * can be recovered by them. At the end of recovery,
 * the TM will invoke the endRecovery method, to indicate to the
 * resource that whatever private logs it has, any remaining
 * and non-recovered participants should be aborted.
public interface RecoverableResource
{

/**
 * Initialize this resource with the recovery service.
 * This method is called by the transaction service during
 * initialization of the transaction service or when the
 * resource is added, whichever comes last. If the
 * resource wants to recover, it should subsequently
 * ask the recoveryService
 * to do so.
 * @param recoveryService The recovery service. This instance
 * can be used by the resource to ask recovery from the
 * transaction engine.
 * @throws ResourceException On errors.
 */

public void setRecoveryService ( RecoveryService recoveryService )
    throws ResourceException;

/**
 * Recover the partially reconstructed Participant.
 * @param participant A partially recovered Participant.
 * @exception ResourceException On failure.
 * @return boolean True iff reconstruction was successful.
 * If the resource is not responsible for the given participant,
 * then this will return false.
 * A Participant can use this to iterate over all resources in order
 * to eventually recover itself. This is particularly
 * useful if the Participant instance can not serialize
 * its full state, because some of it is on its backside
 * resource (as, for instance, in XA).
 * This way, the TransactionalResource can be used to
 * assist in reconstruction of the Participant's state.
 */

public boolean recover ( Participant participant )
    throws ResourceException;

/**
 * Notify the resource that recovery is ended.
 * Called by TM at end of recovery; any remaining
 * resource transactions (i.e., that have not been
 * associated with any recover call) should be rolled back.
 * This is because if the were not recovered by the TM,
 * then surely they are not supposed to be indoubt
*(the TM recovers ALL indoubt work!) and should be
*rolled back.
*
*@exception ResourceException On failure.
*

public void endRecovery () throws ResourceException;

/**
 * Close the resource for shutdown.
 * This notifies the resource that it is no longer needed.
 */

public void close() throws ResourceException;

/**
 * Get the name of the resource. Names should be unique
 * within one TM domain.
 * @return String The name.
 */

public String getName();

/**
 * Test if a resource is the same as another one.
 */

public boolean isSameRM(RecoverableResource res)
    throws ResourceException;

/**
 * Test if the resource is closed.
 * @return boolean True if the resource is closed.
 */

public boolean isClosed();

}
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*/

package com.atomikos.datasource;

import java.util.Enumeration;
import java.util.Stack;

/**
 * Exception on the level of the resource manager.
 * Contains more detailed info of actual protocol's exception.
 */

public class ResourceException extends com.atomikos.icatch.SysException{
    //private Stack errors_=null;

    public ResourceException(String msg){
        super(msg);
    }

    public ResourceException(String msg, Stack errors){
        //this (msg);
        // errors_=(Stack) errors.clone();
        super ( msg , errors );
    }

    public ResourceException(Stack errors){
        super ( "ResourceException" , errors );
    }

    //TODO rename to getErrors (overrides SysException)
    //TODO add method printToConsole
public Stack getDetails()
{
    return getErrors();
}

public void printStackTrace()
{
    super.printStackTrace();
    if (! (getDetails() == null || getDetails().empty())) {
        Enumeration enumm = getDetails().elements();
        while (enumm.hasMoreElements()) {
            Exception next = (Exception) enumm.nextElement();
            next.printStackTrace();
        }
    }
}

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* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/datasource/ResourceException.java.orig
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 */

//$Id: CompositeTransactionManager.java,v 1.1.1.1 2006/08/29 10:01:07 guy Exp $
//$Log: CompositeTransactionManager.java,v $
//Revision 1.1.1.1 2006/08/29 10:01:07 guy
//Import of 3.0 essentials edition.
//
//Revision 1.1.1.1 2006/04/29 08:55:40 guy
//Initial import.
//
//Revision 1.1.1.1 2006/03/29 13:21:34 guy
//Imported.
package com.atomikos.icatch;

/**
 *
 *
 * A composite transaction manager. This interface
 * outlines the API for managing composite transactions
 * in the local VM.
 */

public interface CompositeTransactionManager
{
    /**
     * Starts a new (sub)transaction (not an activity) for the current thread.
     * Associates the current thread with that instance.
     * <br>
     * <h1>NOTE</h1> subtransactions should not be mixed: either each subtransaction is
     * an activity, or not (default). Use suspend/resume if mixed models are necessary:
for instance, if you want to create a normal transaction within an activity, then suspend the activity first before starting the transaction. Afterwards, resume the activity.

@timeout Timeout (in ms) for the transaction.

@return CompositeTransaction The new instance.

@exception SysException Unexpected error.

@exception IllegalStateException If there is an existing transaction that is an activity instead of a classical transaction.

public CompositeTransaction createCompositeTransaction (long timeout) throws SysException, IllegalStateException;

/**
 * Gets the composite transaction for the current thread.
 *
@return CompositeTransaction The instance for the current thread, null if none.
 *
@exception SysException Unexpected failure.

public CompositeTransaction getCompositeTransaction () throws SysException;

/**
 * Gets the composite transaction with the given id.
 * This method is useful e.g. for retrieving a suspended transaction by its id.
 *
@param tid The id of the transaction.

@return CompositeTransaction The transaction with the given id, or null if not found.
 *
@exception SysException Unexpected failure.

public CompositeTransaction getCompositeTransaction (String tid) throws SysException;

/**
 * Re-maps the thread to the given tx.
 *
@param ct The CompositeTransaction to resume.
 *
@exception IllegalStateException If thread has tx already.
@exception SysException Unexpected failure.
public void resume ( CompositeTransaction ct )
  throws IllegalStateException,SysException;

/**
 * Suspends the tx for the current thread.
 * @return CompositeTransaction The transaction for the current thread.
 * @exception SysException On failure.
 */

public CompositeTransaction suspend() throws SysException;

//
//  /**
//   * Starts a new transaction with the option of making it an activity.
//   * Activities are treated differently: they are recoverable even while active,
//   * and can be longer-running and compensation-based.
//   * @param timeout The timeout in ms.
//   * @param activity True if the instance needs to be an activity.
//   * @return The instance.
//   * @throws SysException Unexpected error.
//   * @throws IllegalStateException If an incompatible transaction already exists
//   * (activities should not be mixed with other transactions).
//   */
//
// public CompositeTransaction createCompositeTransaction ( long timeout , boolean activity )
// throws SysException, IllegalStateException;

}
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*/

//Id: CompositeTerminator.java,v 1.1.1.1 2006/08/29 10:01:07 guy Exp $
//Slf: CompositeTerminator.java,v $
//Revision 1.1.1.1 2006/08/29 10:01:07 guy
//Import of 3.0 essentials edition.
//
//Revision 1.1.1.1 2006/04/29 08:55:40 guy
//Initial import.
//
//Revision 1.1.1.1 2006/03/29 13:21:34 guy
//Imported.
//
//Revision 1.1.1.1 2006/03/23 16:25:29 guy
//Imported.
//
//Revision 1.1.1.1 2006/03/22 13:46:57 guy
//Import.
//
//Revision 1.1.1.1 2006/03/09 14:59:22 guy
//Imported 3.0 development into CVS repository.
//
//Revision 1.6 2005/08/11 09:24:05 guy
//Debugged compensation.
//
//Revision 1.5 2005/08/10 07:26:33 guy
//Corrected: should not be deprecated (SOAP termination!)
//
//Revision 1.4 2005/08/09 15:23:38 guy
//Updated javadoc, and redesigned CompositeTransaction interface
///(eliminated TransactionControl and CompositeTerminator).
//
//Revision 1.3 2005/08/05 15:03:27 guy
//Merged-in changes/additions of redesign-5-2004 (SOAP development branch).
//
//Revision 1.2 2004/10/12 13:03:25 guy
//Updated docs (changed Guy Pardon to Atomikos in many places).
//
//Revision 1.1.1.1 2001/10/09 12:37:25 guy
//Core module
//
//Revision 1.3 2001/03/23 17:00:30 pardon
//Lots of implementations for Terminator and proxies.
//
package com.atomikos.icatch;

/**
 * A handle to terminate the composite transaction.
 * Must ALWAYS be used to handle termination throughout the system,
 * also for subtransactions!
 *
 */

class CompositeTerminator
{
  /**
   * Commit the composite transaction.
   *
   * @exception HeurRollbackException On heuristic rollback.
   * @exception HeurMixedException On heuristic mixed outcome.
   * @exception SysException For unexpected failures.
   * @exception SecurityException If calling thread does not have
   * right to commit.
   * @exception HeurHazardException In case of heuristic hazard.
   * @exception RollbackException If the transaction was rolled back
   * before prepare.
   *
   */
   public void commit()
           throws
                  HeurRollbackException,HeurMixedException,
                  HeurHazardException,
                  SysException,java.lang.SecurityException,
                  RollbackException;

  /**
   * Rollback the current transaction.
   * @exception IllegalStateException If prepared or inactive.
   * @exception SysException If unexpected error.
   */
public void rollback()
    throws IllegalStateException, SysException;
}

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* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/CompositeTerminator.java.orig
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* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/TSListener.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/RecoveryCoordinator.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/SubTxCode.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/datasource/RecoverableResource.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-
jar/com/atomikos/icatch/Propagation.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/ImportingTransactionManager.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/config/TSMetaData.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/HeurHazardException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/StringHeuristicMessage.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/CompositeCoordinator.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/ExportingTransactionManager.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/HeurCommitException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/datasource/ResourceException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/Participant.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/config/UserTransactionServiceFactory.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/SysException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/Synchronization.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/config/TSInitInfo.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/CompositeTerminator.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/CompositeTransaction.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/RollbackException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/config/TSInitInfo.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/datasource/ResourceTransaction.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/TxState.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/HeurMixedException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/config/UserTransactionServiceImp.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/admin/LogControl.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-jar/com/atomikos/icatch/config/UserTransactionService.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1-
jar/com/atomikos/icatch/RecoveryService.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/TransactionControl.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/HeurRollbackException.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/admin/AdminTransaction.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/HeuristicMessage.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/CompositeTransactionManager.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/Extent.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/datasource/TransactionalResource.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/SubTxAwareParticipant.java
* /opt/cola/permits/1006671197_1608127589.91/0/transactions-api-3-7-0-sources-1.jar/com/atomikos/icatch/admin/LogAdministrator.java
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 */

//Id: HeurCommitException.java, v 1.1.1.1 2006/08/29 10:01:07 guy Exp $
package com.atomikos.icatch;

/**
 * 
 * *A heuristic extension supporting messages.
 */

public class HeurCommitException extends Exception
{
    protected HeuristicMessage[] msgs_=null;

    /**
     *Constructor.
     * @param msgs an array of heuristic messages,
     * or null if none.
     */
    public HeurCommitException(HeuristicMessage[] msgs)
super("Heuristic Exception");
msgs_=msgs;
}

/**
 * Get any heuristic messages.
 *
 * @return HeuristicMessage[] A list of messages, or null if none.
 */
public HeuristicMessage[] getHeuristicMessages(){
    return msgs_;
package com.atomikos.icatch;

/**
 * An interface for a TM that allows outgoing remote calls to be transactional.
 * <b>WARNING: this interface and its mechanisms are subject to several patents and pending patents held by Atomikos. Regardless the license under which this interface is distributed, third-party use is NOT allowed without the prior and explicit written approval of Atomikos.</b>
 */

public interface ExportingTransactionManager
{
}
/**
 * Get the propagation info of the tx for the calling thread.
 * Called before doing the remote call.
 *
 * @return Propagation The propagation for the current thread.
 *
 * @exception SysException If no tx for current thread.
 * @exception RollbackException If the current transaction has already rolled back.
 */

public Propagation getPropagation ()
throws SysException, RollbackException;

/**
 * Called after call returns successfully:
 * add the extent of the call to the current tx.
 * If a remote call has failed, this method should NOT be called.
 *
 * @param extent The extent of the call.
 * @exception RollbackException If the current transaction has already rolled back.
 * @exception SysException On failure.
 */

public void addExtent ( Extent extent )
throws SysException, RollbackException;
}

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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/NewInstanceSchemas.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/CodedInputStreamReader.java
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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/ArrayDecoders.java
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* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/BooleanArrayList.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/LazyFieldLite.java
* /opt/ws_local/PERMITS_SQL/1092310281_1600708753.46/0/protobuf-java-3-13-0-sources-jar/com/google/protobuf/AllocatedBuffer.java
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  jar/com/google/gson/internal/LinkedTreeMap.java
* /opt/cola/permits/1001166424_1608115822.07/0/gson-2-3-1-sources-2-jar/com/google/gson/internal/LinkedHashMap.java
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* /opt/cola/permits/1001166424_1608115822.07/0/gson-2-3-1-sources-2-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
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* /opt/cola/permits/1001166424_1608115822.07/0/gson-2-3-1-sources-2-jar/com/google/gson/JsonDeserializationContext.java
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* /opt/cola/permits/1001166424_1608115822.07/0/gson-2-3-1-sources-2-jar/com/google/gson/DefaultDateTypeAdapter.java

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* /opt/cola/permits/1001166424_1608115822.07/0/gson-2-3-1-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard  
  Original author of libsensors, sensors-detect, sensors and isadump.  
* Merlin Hughes  
  Original author of sensord.  
* Bob Schlaermann  
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.  
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  Many improvements to the libsensors configuration file scanner.  
* Jean Delvare  
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Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.3310 python-kitchen 1.1.1-5.el7

1.3310.1 Available under license:

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1.3315 lvm2 2.02.187-6.0.3.el7_9.3
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

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Accompany the work with a written offer, valid for at
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Verify that the user has already received a copy of these
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@end enumerate

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@enumerate a
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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That's all there is to it!

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* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.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/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/xslt/XsltView.java
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  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
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  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
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  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
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  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
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  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
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  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/tiles2/SpringBeanPreparerFactory.java
  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/tiles2/TilesViewResolver.java
  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/feed/AbstractRssFeedView.java
  */opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/tiles2/TilesView.java

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* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/FrameworkServlet.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/ThemeResolver.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/DispatcherServlet.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/view/RedirectView.java
* /opt/cola/permits/1143552546_1615694733.55/0/spring-webmvc-3-2-8-release-sources-2-
  jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
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**
* A contract for inspecting and potentially modifying request data values such
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* view or before a redirect.
* 
* 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.
* 
* 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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1.3340 tomcat-juli 7.0.57

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* configure.ac, Makefile.am: The original versions were derived from the 
one's in the XML Catalog Manager project, version 2.2.

    Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were 
derived form the ones in the Monotone project, revision 
3a0982da308228d796df35f98d787c5cfff2bb5b6.

    Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: 
These files were derived from the file_handle, systembuf, pipe and pistream 
classes and tests found in the Boost.Process library.

    Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, 
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, 
except the first one, were first implemented in the Buildtool project. 
They were later adapted to be part of Boost.Process and, during that 
process, the shell script was created.

    Author: Julio Merino <jmmv84@gmail.com>

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# Jackson JSON processor

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* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/config/OxmNamespaceHandler.java
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* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/GenericMarshaller.java
* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/jaxb/Jaxb2Marshaller.java
* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/support/AbstractMarshaller.java

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* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/mime/MimeMarshaller.java
* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/UnmarshallingFailureException.java
* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/xstream/XStreamUtils.java
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* /opt/cola/permits/1152322807_1618219398.85/0/spring-oxm-3-0-7-release-sources-2-jar/org/springframework/oxm/ValidationException.java

1.3356 hibernate-jpamodelgen 1.0.0.Final

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jar/org/hibernate/jpamodelgen/util/Constants.java
* /opt/cola/permits/1152323480_1618219105.9/0/hibernate-jpamodelgen/util/TimeStampChecker.java
* /opt/cola/permits/1152323480_1618219105.9/0/hibernate-jpamodelgen/Version.java
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* /opt/cola/permits/1152323480_1618219105.9/0/hibernate-jpamodelgen/util/TypeUtils.java
* /opt/cola/permits/1152323480_1618219105.9/0/hibernate-jpamodelgen/JPAMetaModelEntityProcessor.java

1.3357 perl-extutils-makemaker 6.68 3.el7

1.3358 cpp 4.8.5 28.el7

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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(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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*m4/ax_func_which_gethostbyname_r.m4

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jar/org/springframework/jndi/JndiPropertySource.java
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jar/org/springframework/stereotype/Service.java
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* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/context/support/SimpleThreadScope.java
* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/context/annotation/ProxyAsyncConfiguration.java
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* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/cache/support/CompositeCacheManager.java
* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java

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* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2.jar/org/springframework/remoting/RemoteAccessException.java
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* /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2-
jar/org/springframework/jmx/export/metadata/ManagedOperation.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.
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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 * /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
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 * /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
 * /opt/cola/permits/1136703030_1613865162.02/0/spring-context-3-2-11-release-sources-2-jar/org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
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jar/org/springframework/test/context/web/ServletTestExecutionListener.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/annotation/Repeat.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/web/servlet/result/MockMvcResultMatchers.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/web/servlet/MockMvc.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/annotation/IfProfileValue.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/web/servlet/request/MockMvcRequestBuilders.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-

jar/org/springframework/test/util/MatcherAssertionErrors.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/web/servlet/request/MockMultipartHttpServletRequestBuilder.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/context/support/AbstractTestContextBootstrapper.java
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/test/context/TestExecutionListeners.java

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*/

Found in path(s):
* /opt/cola/permits/1152321961_1618219342.45/0/spring-test-4-2-1-release-sources-2-
jar/org/springframework/mock/web/portlet/MockActionRequest.java

1.3365 dhcp 4.2.5-79.0.1.el7
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.
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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1.3371 compat-db 4.7.25 28.el7

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1.3374 websocket-api 9.4.11.v20180605

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  jar/org/springframework/core/io/DefaultResourceLoader.java
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* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
jar/org/springframework/core/classreading/MetadataReaderFactory.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
jar/org/springframework/core/SmartClassLoader.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
jar/org/springframework/core/filter/TypeFilter.java

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  jar/org/springframework/util/comparator/InvertibleComparator.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/util/comparator/NullSafeComparator.java
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  jar/org/springframework/util/comparator/ComparableComparator.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/NamedInheritableThreadLocal.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/task/TaskExecutor.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/AliasRegistry.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/util/Log4jConfigurer.java
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  jar/org/springframework/core/style/DefaultToStringStyler.java
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  jar/org/springframework/core/env/CommandLineArgs.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/env/Environment.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/ClassDescriptor.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/env/MapPropertySource.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/support/GenericConversionService.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/support/DefaultConversionService.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/ParameterDescriptor.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/io/ResourceEditor.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/convert/ConversionService.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/env/ConfigurableEnvironment.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
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  jar/org/springframework/core/type/filter/AssignableTypeFilter.java
* /opt/cola/permits/1152323462_1618219319.52/0/spring-core-3-1-1-release-sources-3-
  jar/org/springframework/core/io/InputStreamSource.java

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